OLO Report 2026-2 January 20, 2026

High School and Middle School Course Availability in Montgomery County Public Schools

Kristen Latham
Office of Legislative Oversight
Montgomery County, Maryland

OLO Report 2026-2

High School and Middle School Course Availability in Montgomery County Public Schools (MCPS)

Table of Contents

Appendix

EXECUTIVE SUMMARY

This report responds to Council's request to better understand what courses are available across MCPS high and middle schools. It is important to note that a primary request from the Council was to provide an inventory of courses – this inventory (organized by FARMS rate) is available in the Appendix of this report.

Background and Context. MCPS is currently completing multiple studies around school policy, including:

- A districtwide boundary study;
- A districtwide analysis of academic programs; and
- Analysis on resources, curriculum, and courses as part of the Strong Local Schools program.

As of the November 20th, 2025 School Board Meeting, the MCPS Superintendent is planning on presenting a recommendation for both a boundary study and programming changes in February 2026. The school board will vote on the recommendations in March 2026.

How MCPS Schools Choose Courses to Offer. MCPS does not have a formal written policy for the selection of courses available at individual schools. The process used to select courses available to students is primarily the choice and responsibility of the individual schools, with schools varying in how courses offered are selected. MCPS staff report the primary driver for the selection of courses is student interest. Ultimately, it is the decision of the principal whether a course is offered in a school. However, there are some basic teacher and enrollment requirements for offering a new course in a school.

School Catalogs. There are two types of school catalogs for MCPS – one for all schools (completed by central administration and considered the official course catalog) and individual school catalogs (which may not be available for all schools). OLO found inconsistencies and outdated information across catalogs and websites on what courses are available.

Graduation Requirements. The following chart summarizes the academic course requirements for MCPS students to graduate high school.

Subject	Credits Required
Computer Science, Engineering or Technology Education (TE)	**ONE** credit designated TE, includes the study of computers and algorithmic processes or the application of knowledge, tools, and skills to solve practical problems
English	**FOUR** credits of organized instruction in comprehension of literary and informational texts, writing, speaking and listening, language, and literacy
Fine Arts	**ONE** credit in dance, media arts, music, theatre or visual art, or a combination
Health Education	**ONE** credit, Honors Health Education A/B
Mathematics	**FOUR** credits, one including algebra and geometry STATE REQUIREMENT: Students graduating in 2018 and later must be enrolled in a math course in each year of high school
Physical Education	**ONE** credit
Science	**THREE** Next Generation Science Standards (NGSS) credits, including one life science credit aligned to the Life Science Maryland Integrated Science Assessment (MISA), one physical science credit, and one credit in earth/space science or an NGSS course with the topics of earth/space science integrated
Social Studies	**THREE** credits including one U.S. History credit, one World History credit, and one National, state, and Local Government credit aligned with the MCA for government
World Languages or Program of Studies and Electives	**TWO** credits of the same world language and **TWO** credits in elective courses OR complete a state-approved career and technical education (CTE) program of study

Course Availability in MCPS Schools. Overall, OLO identified over 1,300 courses in the MCPS course "catalog." This includes over 1,000 courses in high schools, 200 courses in middle schools, and 72 courses available in both middle and high school. Some of these courses may not be offered in any MCPS school but are included in the catalog. The subject with the most overall courses was Art.

Subject/ Content Area	High Schools Courses (Available 9th-12th Grades)	Both High School and Middle Schools Courses (Available in 6th-12th Grade)	Middle Schools Courses (Available in 6th-8th Grade)	Total
Environment, Agriculture, and Natural Resources	19	1	3	23
Arts, Media and Communications (AMC)	22	2	4	28
Art (ART)	153	4	58	215
Health Professions and Biosciences (BHP)	25			25
Business Management and Finance (BMF)	38	1		39
Consumer Services, Hospitality, and Tourism (CHT)	21		1	22
Construction (CON)	68			68
Education (EDU)	24		4	28
English (ENG)	83	2	31	116
Engineering (ENR)	26		16	42
Health and Physical Education (HPE)	37		6	43
Information Technology (ITC)	64	2	17	83
Junior ROTC (JRO)	9			9
Math (MAT)	49	20	12	81
Law, Government, Public Safety and Administration	24			24
Science (SCI)	98	4	17	119
Social Studies (SOC)	106	1	19	126
Technology Education (TEC)	13	4	3	20
Transportation (TRN)	28			28
Work Based Learning (WBL)	12	1	1	14
World Languages (WGL)	134	30	8	172
TOTAL	1,053	72	200	1,325

*Because it was not the focus of this report, OLO did not include EML and ALO courses in this table.

Middle School Course Availability. OLO found that for "core" middle school courses (English, math, science, social studies, and health/PE), all MCPS middle schools offer the same courses in various forms (i.e. magnet science courses instead of general science courses).

- All 40 schools have Advanced English for Grade 6, Advanced English for Grade 7, and Advanced English for Grade 8.
- All 40 MCPS middle schools offer the same courses for Health and Physical Education.
- All 40 schools have Investigations in Physical Science for 8th grade students; 39 schools have Life Science for 7th grade students and Investigations in Earth Science for 6th grade students (exception is Parkland).
- Two course pathways in social studies are available at most schools: general curriculum courses in each grade (at least 75% of schools) or accelerated/enriched courses (at least 93% of schools).
- Several math courses are available at least 38 middle schools including: Accelerated Math 6 Plus, Accelerated Math 7 Plus, Grade 8 Math, Algebra 1, and Honors Geometry.
- Spanish is offered at all middle schools, French is offered at 75% of schools, and Chinese is offered at seven schools.
- "Elective" middle courses offered across MCPS schools varies from 50 courses at Silver Spring Middle School to 17 courses at John Poole Middle School.

High School Course Availability. MCPS high schools offered an average of 201 courses across all subject areas:

- Blair offers the greatest number of courses (291) and Sherwood the least (164).
- There are 59 AP courses across eight subject areas (including two non-specific subject courses). OLO found the high schools with the fewest AP courses typically had an IB program in the school. Science has the greatest number of AP courses.
- Walter Johhson had most AP courses without an IB program (39) and BCC had the most with an IB program (27).

Number of Courses by Subject Area for MCPS High Schools (Largest and Smallest Values Highlighted)

	Enrollment	English	Math	Science	Social Studies	World Languages	HPE	Fine Arts	CTE	Reg Tech Ed	Elective	Total
Albert Einstein	2,012	16	15	14	8	29	9	49	27	4	34	205
Bethesda-Chevy Chase	2,335	13	22	21	13	41	9	44	23	3	44	233
Clarksburg	2,251	13	18	17	12	21	10	33	26	5	34	189
Col. Zadok Magruder	1,686	15	18	19	11	20	10	29	52	4	28	206
Damascus	1,414	12	14	16	7	13	9	31	26	3	23	154
Gaithersburg	2,436	13	19	18	11	18	12	34	40	4	26	195
James Hubert Blake	1,784	12	16	12	11	18	9	53	24	5	32	192
John F. Kennedy	1,827	23	23	19	12	22	11	36	34	4	32	216
Montgomery Blair	3,204	12	29	40	8	27	12	56	27	3	77	291
Northwest	2,484	11	18	13	8	17	9	38	24	5	39	182
Northwood	1,796	15	19	16	11	18	8	42	32	4	29	194
Paint Branch	2,135	13	17	19	8	19	10	25	50	4	30	195
Poolesville	1,309	15	24	32	11	11	2	21	15	5	38	174
Quince Orchard	2,154	16	19	17	10	23	10	44	32	4	30	205
Richard Montgomery	2,390	22	26	26	12	37	9	42	9	6	41	230
Rockville	1,516	17	19	19	13	26	10	26	20	5	33	188
Seneca Valley	2,239	17	23	16	13	24	9	45	55	3	43	248
Sherwood	1,721	13	16	15	7	10	10	35	29	5	24	164
Springbrook	1,838	17	19	22	10	27	9	30	35	4	32	205
Thomas S. Wootton	1,911	12	18	16	7	24	10	34	18	2	32	173
Walt Whitman	2,018	10	16	18	9	38	8	36	21	3	35	194
Walter Johnson	2,942	15	19	19	12	30	9	47	22	6	37	216
Watkins Mill	1,715	16	22	18	12	25	8	25	23	4	41	194
Wheaton	2,599	12	21	16	11	21	9	33	25	4	32	184
Winston Churchill	2,234	16	20	18	13	21	8	45	12	5	36	194
Average	2,078	15	20	19	10	23	9	37	28	4	35	201

Similar to middle school, OLO found that, overall, "core" courses are found in high schools, particularly in English, math, social studies, science and health/physical education are available at all schools. OLO found that the availability of courses outside of these "core" courses (including (1) courses designated as elective, (2) courses within those subject areas but not in the most common pathway (i.e. Environmental Science or African American History), or (3) courses that meet the Fine Arts, CTE and TE graduation requirement) is generally related the special programs at the individual schools.

Middle School Courses that Meet High School Requirement

Overall, MCPS identified 68 courses available to middle schoolers that can fulfill a graduation requirement within their total course catalog. Of these courses, 37 were offered in middle schools in Spring 2025 (not all middle schools). Most of these courses are in World Languages (24 courses), followed by Fine Arts (four courses - Loiderman only), Math (four courses), Regular Technology Education (three courses) and one Science and one elective course (both only at Parkland).

As of October 2025, there were 171 middle school students across MCPS who attend a high school for one or more courses. Honors Algebra 2A/B, Honors French 2A/B, and French 2A/B account for 57% of all courses that middle school students take at a high school. Winston Churchill High School has the highest number of middle school students attending. OLO found in schools that offered the courses, enrollment was significantly higher than schools that did not.

Course Availability and Equity

Overall, OLO found the availability of courses is not inequitable for non-AP courses:

- The number of courses available by subject matter was fairly similar across all middle schools regardless of FARMS rate;
- The number of courses that meet a graduation requirement that are available varies across all middle schools within each quartile – there are both low and high FARMS rates schools that have a high and low number of courses in middle school that meet a graduation requirement.
- There is significant variation in number of courses from high school to high school but overall, when comparing quartiles divided by FARMS rate, MCPS high schools offer a similar number of classes in almost all subject areas.

OLO did find there is inequity in the offering of AP course availability - high schools with lower FARMS rates offered more AP courses overall compared with high schools with higher FARMS rates. Further, AP participation data also shows that, in general, African American and Hispanic students are underrepresented in AP participation in almost all subject areas.

Report Recommendation

OLO hopes this report can provide another source of information for all stakeholders during conversations around the multiple studies MCPS is currently engaging in. This report does not make recommendations on the availability of courses throughout MCPS; however, OLO has identified one issue that MCPS should address when decisions about boundaries and programs have been solidified – the utilization and uniformity of course catalogs. OLO found inconsistencies and outdated information across the catalogs available. Therefore, OLO suggests that no matter what decisions are made about programs and curriculum in the coming months and years, MCPS should provide schools catalogs that are comprehensive, uniform, and updated annually to ensure students and families have all the information readily available to select schools, pathways, and courses.

INTRODUCTION

Research has shown that the number, variety and rigor of academic courses completed in high school are strong predictors of secondary and postsecondary attainment and success. Montgomery County Public Schools (MCPS) operates 40 middle schools and 26 high schools[1], offering a large array of local high interest courses and pathways supplemented by criteria and interest-based programs. Middle and high school students must take courses in a variety of subject areas including English, math, science, social studies, fine arts, technology, and health/physical education. In addition, students must take elective courses in either a career pathway or world language (in addition to general elective courses).

The Council asked OLO to review and summarize what courses are offered across MCPS middle and high schools. To this end, this report provides a complete inventory of MCPS courses available by school in Spring 2025, with courses identified by which graduation requirement they met (if applicable).

Organization. The Council is interested in better understanding what courses are available to students across all MCPS schools and how MCPS makes decisions about which schools will offer which options for coursework in middle and high schools, particularly elective courses. This report is organized as follows:

- **Chapter 1** provides an overview of MCPS' current efforts to study school boundaries and programs;
- **Chapter 2** summarizes MCPS enrollment and graduation requirements, along with middle and high school special programs available throughout the County;
- **Chapter 3** is a high-level summary of courses available in MCPS schools, including courses available in middle school that meet high school graduation requirements;
- **Chapter 4** provides a detailed summary of high school courses by school and enrollment;
- **Chapter 5** is a detailed summary of middle school courses by school and enrollment;
- **Chapter 6** examines equity in course availability across MCPS schools;
- **Chapter 7** provides a summary of findings and recommended discussion issues;
- **Chapter 8** provides agency comments.

Methodology OLO staff member Kristen Latham conducted this study with assistance from OLO staff members Natalia Carrizosa, Janmarie Peña and Karen Pecoraro. To prepare this report, OLO gathered information through document review, data analysis, literature review, and interviews with staff in MCPS departments and programs.

[1] Includes Thomas Edison High School

Acknowledgements OLO received a high level of cooperation from everyone involved in this study and appreciates the information and insights shared by all MCPS staff who participated:

Phillip Barnes, Steven Boden, Andrea Buckley, Kristie Clark, Robin Corlett, Karen Danco, Kelly Dunston, Dr. Genevieve Floyd, Jeannie Franklin, Ashley Grantham, Rosanna Haywood, Dr. Tamara Hewlett, Jennifer Loznak, Catherine Malchodi, Adnan Mamoon, Renee McCall, Tracy Oliver-Gary, David Parks, Dr. Niki Hazel Porter, Alyna Raynovich, Nicola Richards-Wright, Randy Rumpf, Jennifer Scavullo, Francoise Vandenplas, and Anjali Wells

Glossary. This OLO report uses many acronyms and initialisms that are used by MCPS. These are identified throughout the report. In addition, because OLO references specific schools (many with longer names), OLO shortened several school names for brevity. The following table summarizes which names were used to identify MCPS middle and high schools.

MCPS Middle Schools	**Herein referred to as:**
Argyle	Argyle
John T. Baker	Baker
Benjamin Banneker	Banneker
Briggs Chaney	Briggs Chaney
Cabin John	Cabin John
Roberto W. Clemente	Clemente
Eastern	Eastern
William H. Farquhar	Farquhar
Forest Oak	Forest Oak
Robert Frost	Frost
Gaithersburg	Gaithersburg
Herbert Hoover	Hoover
Francis Scott Key	Key
Dr. Martin Luther King, Jr.	King
Kingsview	Kingsview
Lakelands Park	Lakelands
Odessa Shannon	Odessa Shannon
A. Mario Loiederman	Loiederman
Montgomery Village	Montgomery Village
Neelsville	Neelsville
Newport Mill	Newport Mill
North Bethesda	N. Bethesda
Parkland	Parkland
Rosa M. Parks	Parks
John Poole	Poole
Thomas W. Pyle	Pyle
Redland	Redland
Ridgeview	Ridgeview
Rocky Hill	Rocky Hill
Shady Grove	Shady Grove
Silver Creek	Silver Creek
Silver Spring International	SSI
Sligo	Sligo
Takoma Park	Takoma Park
Tilden	Tilden
Hallie Wells	Hallie Wells
Julius West	Julius West
Westland	Westland
White Oak	White Oak
Earle B. Wood	Wood

MCPS High Schools	**Herein referred to as:**
Bethesda-Chevy Chase	BCC
Montgomery Blair	Blair
James Hubert Blake	Blake
Winston Churchill	Churchill
Clarksburg	Clarksburg
Damascus	Damascus
Albert Einstein	Einstein
Gaithersburg	Gaithersburg
Walter Johnson	WJ
John F. Kennedy	Kennedy
Col. Zadok Magruder	Magruder
Richard Montgomery	RM
Northwest	Northwest
Northwood	Northwood
Paint Branch	Paint Branch
Poolesville	Poolesville
Quince Orchard	QO
Rockville	Rockville
Seneca Valley	Seneca Valley
Sherwood	Sherwood
Springbrook	Springbrook
Watkins Mill	Watkins Mill
Wheaton	Wheaton
Walt Whitman	Whitman
Thomas S. Wootton	Wootton

Chapter 1. Background

Montgomery County Public Schools are currently undertaking numerous studies and reviews concerning school offerings. MCPS is conducting the studies together – as MCPS reports these studies are "inextricably linked." This chapter provides a brief overview of these concurrent studies as a context for this OLO report. MCPS has and is currently continuing to conduct information sessions and public meetings for these proposals. In addition to the summarized studies, MCPS reported to OLO that the central administration is currently conducting an internal study on course availability, curriculum and resources in order to standardize learning for the Strong Local Schools Program.

OLO hopes that this report will provide data and information to support and supplement the discussion of these other MCPS analyses and MCPS' decision-making process regarding these bigger picture issues. According to MCPS, Superintendent Thomas Taylor will present a recommendation on both the boundary study and programming changes in February 2026, and the school board will vote on the recommendations in March 2026.

This chapter provides a summary of the current boundary study and school program analysis. **Because information on these studies is consistently changing, OLO is only providing a very high-level summary of the studies.** For the most current information available, MCPS has two websites with updated information.[2] **The information in this chapter is updated as of the November 20th school board meeting, where MCPS staff provided an update.[3]**

A. MCPS Boundary Study

Because of overcrowding and the opening/expanding of several high schools, MCPS has undertaken a boundary study for County students.[4] The current changes include the opening of Crown High School, expansion of Damascus High School, reopening/expansion of Northwood High School and the reopening Charles W. Woodward High School for the 2027-2028 school year. A consultant, FLO Analytics, was contracted to conduct this study. The priorities for the boundary study (summarized in MCPS Board Policy FAA) are:

- Demographic characteristics of student population;
- Geography;
- Stability of school assignments over time; and
- Facility utilization.

MCPS is planning on implementing new boundaries beginning with grades 9 and 10 in the 2027-2028 school year with rising grade 11 and 12 students remaining at their current high school of attendance. The implementation would continue with grades 9 through 11 in the 2028-2029 school year followed by full implementation of grades 9 through 12 in the 2029-2030 school year. The new boundaries will also be

[2] https://www.montgomeryschoolsmd.org/departments/facilities/boundary-study/ and https://www.montgomeryschoolsmd.org/curriculum/academic-programs-analysis/
[3] https://go.boarddocs.com/mabe/mcpsmd/Board.nsf/Public#
[4] The boundary study does not include elementary schools and currently include 19 highs schools and 31 middle schools.

implemented beginning for grades 6 and 7 for the 2027-2028 school year, with rising 8th graders staying at their currently assigned school followed by a full implementation of grades 6 through 8 in the 2028-2029 school year. This is MCPS' recommendation – the Montgomery County School Board will have final decisions on the implementation plan, including grandfathering of students.

There have been multiple options for boundary studies released. There were four initial options and after community feedback, MCPS released updated options. For all of the options (and the most current information), please see the following websites:

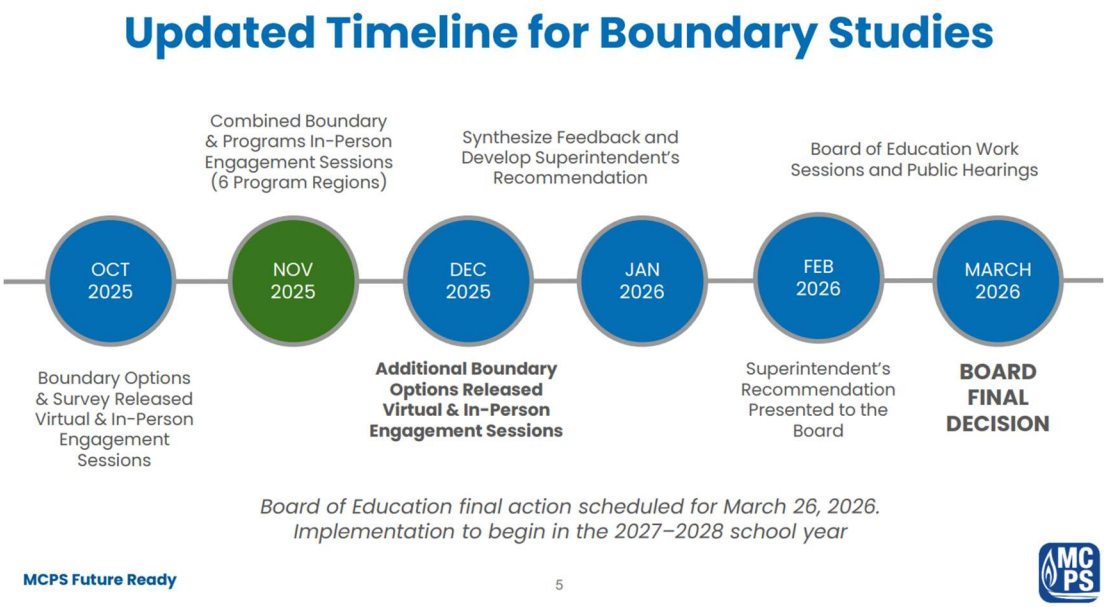
- Initial Options @ https://sites.google.com/mcpsmd.net/boundarystudyoptions?usp=sharing/
- Woodward Boundary Study Options @ https://sites.google.com/mcpsmd.net/woodward-boundary-options/home
- Crown Boundary Study Options @ https://sites.google.com/mcpsmd.net/crowndamascus-boundary-options/home

For a full discussion of the updated options please see the following website - https://www.boarddocs.com/mabe/mcpsmd/Board.nsf/files/DNLJE34CC316/$file/Boundary%20Studies%20Program%20Analysis%20Update%20251120%20PPT%20REV.pdf.

Timeline. MCPS has already completed several of its outlined boundary study process timeline events including:

- April 2025 Initial Information Sessions and Initial Survey;
- May-June 2025 Initial Options Sessions and Feedback Survey;
- July-August 2025 Synthesize Feedback and Refine Options; and
- September 2025 Refined Options Sessions and Feedback Survey.

The Superintendent will present the recommendation to the Board and the Board will hold public hearings and solicit written testimony from the community in the coming months. MCPS hopes the Board will have a decision in March 2026. During the November 20th Board meeting, MCPS released the following updated timeline.


Updated Timeline for Boundary Studies
Combined Boundary & Programs In-Person Engagement Sessions (6 Program Regions)
Synthesize Feedback and Develop Superintendent's Recommendation
Board of Education Work Sessions and Public Hearings
OCT 2025
NOV 2025
DEC 2025
JAN 2026
FEB 2026
MARCH 2026
Boundary Options & Survey Released Virtual & In-Person Engagement Sessions
Additional Boundary Options Released Virtual & In-Person Engagement Sessions
Superintendent's Recommendation Presented to the Board
BOARD FINAL DECISION
Board of Education final action scheduled for March 26, 2026.
Implementation to begin in the 2027–2028 school year
MCPS Future Ready
5

B. Academic Program Analysis

MCPS has completed a districtwide analysis of academic programs available to students and the proposed changes would replace the district's current model (described in Chapter 2) with a plan that divides the district high schools into six regions with four or five high schools in each region. The goal of the study is to ensure equity and accessibility for all students to all programs. The goal is to align school programs with student interests, community needs, industry demands and the effective use of resource. The three primary goals are:

- Broadening access for more students by building on the successes of current programs and consortia.
- Creating programs for students closer to their homes and within their home school regions.
- Expanding program options across the district, ensuring that robust course offerings and programs in key academic theme areas are available in all regions.

The new model would mean that criteria and lottery programs would no longer be available Countywide. These programs would be converted into regional programs. In addition, MCPS' high school consortia would no longer exist.

Breakdown of Regions. The proposed model consists of five Academic Program Themes:

- Medical Science and Healthcare;
- Science, Technology, Engineering, and Math;
- International Baccalaureate, Humanities and Languages;
- Leadership and Public Service, including Education; and
- Visual and Performing Arts, Design and Communication.

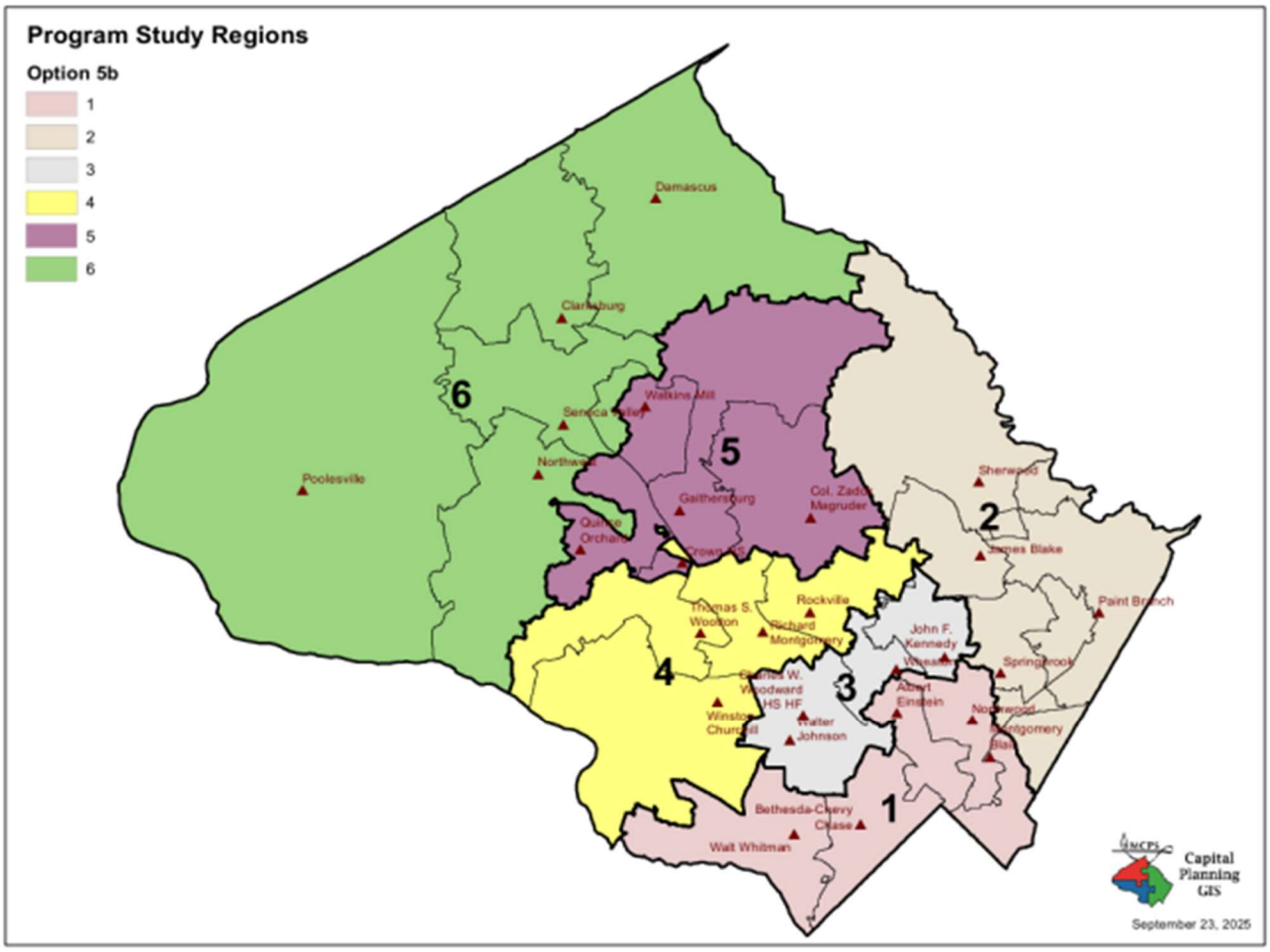
There are two ways students can enroll in a program – criteria based or interest based:

- Criteria-based means students must meet certain academic standards for the program. All students who apply and meet criteria will be eligible for the program and a selection committee will decide acceptance.
- Interest-based means all students who are interested are put into a lottery for enrollment.

The following chart and tables summarize which schools are in each region and the programs that are proposed to be offered in them. These are all screenshotted from MCPS' presentation to the School Board on November 20, 2025.

During the Board meeting on November 20th, MCPS provided the following updates:

- MCPS added additional STEM programs in each region;
- MCPS has paired criteria- and interest-based pathways in each school; and
- MCPS has prepared an alternative Region 5 model based on what happens with Crown boundary decisions.


Program Study Regions
Option 5b
1
2
3
4
5
6
Damascus
Clarksburg
Poolesville
Northwest
Gaithersburg
Col. Zadok Magruder
Sherwood
James Blake
Rockville
Thomas S. Wootton
Richard Montgomery
John F. Kennedy
Springbrook
Albert Einstein
Walter Johnson
Bethesda-Chevy Chase
Walt Whitman
Capital Planning GIS
September 23, 2025

Region One

School	Regional Program Pathways (III)	Local Pathways (not an exhaustive list)
Bethesda-Chevy Chase	International Baccalaureate (c) Engineering (i)	IB Middle Years Program Computer Science PLTW*: Advanced Engineering More pathways here
Montgomery Blair	Science, Technology, and Math: Science: Math, and Computer Science (c) Cybersecurity (i) Communication *Arts Programs* (c)	Entrepreneurship and Business Management International Studies and Law Accounting and Finance More pathways here
Walt Whitman	Leadership *for Social Justice* (i) Humanities (c) & Less Commonly Taught Languages (i)	Child Development Associate Computer Science PLTW* Engineering More pathways here
Albert Einstein	Medical Science - Biotechnology (c) Healthcare TBD (i) Visual Art (c) and Design (i) Performing Arts: Music (c)	International Baccalaureate Visual and Performing Arts Academy of Finance More pathways here
Northwood	Performing Arts: Dance (c); Theatre/ Technical Theatre (i) Environmental Science & Leadership (c, i) Leadership, Law and Criminal Justice (i) Middle College (i/c)	Finance, Accounting, Marketing and Education Humanities, Arts, and Media Musical Theater and Dance More pathways here

(c) criteria-based
(i) interest-based
(i/c) interest with conditions

MCPS Future Ready

25

Region Two

School	Regional Program Pathways (III)	Local Pathways (not an exhaustive list)
James Hubert Blake	Visual Art (c) Performing Arts (c,i) Design & Communication (i) Middle College (i/c)	Business and Consumer Services Arts and Communications Broadcast Media More pathways here
Paint Branch	Medical Science with Biomedical (c) Clinical Healthcare with Medical Assistant (i) Leadership for Social Justice (i) JROTC (i)	Restaurant Management PLTW Engineering Navy JROTC More pathways here
Springbrook	Science, Technology, and Math: Science, Math, and Computer Science (c) Cybersecurity (i) International Baccalaureate (c)	Academy of Information Technology Justice, Law and Society PLTW Engineering More pathways here
Sherwood	Humanities (c) and Less Commonly Taught Languages (i) Engineering (i)	Health Professions: CNA Business Management PLTW Engineering More pathways here

(c) criteria-based
(i) interest-based
(i/c) interest with conditions

MCPS Future Ready

26

Region Three

School	Regional Program Pathways (III)	Local Pathways (not an exhaustive list)
Charles W. Woodward	Visual Art (c) Performing Arts (c,i) Design & Communication (i) Middle College (i/c)	Opening 2027 More pathways here
John F. Kennedy	Medical Science with Biotechnology (c) Clinical Healthcare with Medical Assistant (i) International Baccalaureate (c)	Broadcast Journalism Healthcare Professions International Baccalaureate More pathways here
Walter Johnson	Humanities (c) and Less Commonly Taught Language (i) Leadership and Public Service TBD (i)	APEX-Reach Computer Science/Code.org Child Development Associate More pathways here
Wheaton (Career hub with Thomas Edison High School of Technology)	Science, Technology, and Math: Science, Math, and Computer Science with Engineering and Biomedical Science (c)	Global Studies PLTW Bioscience PLTW Engineering More pathways here

(c) criteria-based
(i) interest-based
(i/c) interest with conditions

MCPS Future Ready

27

Region Four

School	Regional Program Pathways (III)	Local Pathways (not an exhaustive list)
Richard Montgomery	International Baccalaureate (c) Performing Art: Dance (c) ; Theatre /Technical theatre (i)	Computer Science/Code.org Diploma Program Middle Years Program More pathways here
Rockville	Medical Science with Biomedical (c) Clinical Healthcare with Medical Assistant (i) Engineering (i) Middle College (i/c) including PTEACH	Child Development Associate IB Diploma Program Career-related Programme More pathways here
Winston Churchill	Humanities (c) & Less Commonly Taught Language (i) Performing Arts: Music (c) Video and Audio Production (i)	Computer Technology Engineering and Math Broadcast Media More pathways here
Thomas S. Wootton	Science, Technology and Math: Science, Math and Computer Science (c), Digital Technology TBD (i) Visual Art (c) Leadership for Social Justice	Humanities and Arts IT Networking Computer Science More pathways here

(c) criteria-based
(i) interest-based
(i/c) interest with conditions

MCPS Future Ready

28

Region Five

School	Regional Program Pathways (III)	Local Pathways (not an exhaustive list)
Crown	Medical Science (c) Clinical Healthcare (i) Performing Arts: Dance *(c)*	Opening 2027 More pathways here
Col. Zadok Magruder	Engineering and *Aviation* (c,i) Leadership for Social Justice (i) JROTC (i)	Apprenticeship Army JROTC Aviation & Aerospace More pathways here
Gaithersburg	Science, Technology, and Math: Science, Math, and Computer Science (c) Digital Technology TBD (i) Visual Art (c) Animation and Game Design (i)	PLTW Biomedical Sciences Broadcast Media Computer Science More pathways here
Watkins Mill	International Baccalaureate (c) Middle College (i/c)	Medical Careers IB Middle Years Program, IB Career-related Program More pathways here
Quince Orchard	Humanities (c) and Less Commonly Taught Language (i) Performing Arts: Music (c) Performing Arts: Theatre/Technical theatre (i)	Fine Arts & Humanities Broadcast Media IT Networking More pathways here

MCPS Future Ready

29

(c) criteria-based
(i) interest-based
(i/c) interest with conditions

Alternative Region Five

School	Regional Program Pathways (III)	Local Pathways (not an exhaustive list)
Crown Potential Temporary Holding School		
Col. Zadok Magruder	Engineering and *Aviation* (c,i) Humanities (c) and Less Commonly Taught Language (i) Leadership for Social Justice (i) JROTC (i)	Apprenticeship Army JROTC Aviation & Aerospace More pathways here
Gaithersburg	Science, Technology, and Math: Science, Math, and Computer Science (c) Digital Technology TBD (i) Visual Art (c); Animation and Game Design (i)	PLTW Biomedical Sciences Broadcast Media Computer Science More pathways here
Watkins Mill	International Baccalaureate (c) Middle College (i/c) Performing Arts: Dance *(c)*	Medical Careers IB Middle Years Program, IB Career-related Program More pathways here
Quince Orchard	Medical Science Biotechnology (c) Clinical Healthcare TBD (i) Performing Arts: Music (c) ; Theatre/Technical Theatre (i)	Fine Arts & Humanities Broadcast Media IT Networking More pathways here

(c) criteria-based
(i) interest-based
(i/c) interest with conditions

MCPS Future Ready

30

Region Six

School	Regional Program Pathways (III)	Local Pathways (not an exhaustive list)
Seneca Valley (Career hub)	International Baccalaureate (c) Engineering (i) Performing Arts: Dance (c) ;Theatre/Technical Theatre (i)	IB Middle Years Program IB Career-related Programme Construction Electricity More pathways here
Clarksburg	Medical Science with Biomedical (c) Clinical Healthcare with Pharmacy Technician (i) P-Tech (i)	Computer Science PLTW: Advanced Engineering Pathways in Networking & Info Tech (P-TECH) More pathways here
Damascus	Performing Arts: Music (c) Communication TBD (i) Environmental Science and Leadership (c,i)	Child Development Associate Information Technology Networking Professional Restaurant Management More pathways here
Poolesville	Science, Technology, & Math: Science, Math, and Computer Science (c) ; Digital Technology TBD (i) Humanities (c) and Less Commonly Taught Language (i) Global Ecology (i)	Independent Studies House PLTW Engineering Computer Science More pathways here
Northwest	Medical Science Biotechnology (c,i) Visual Art (c) ; Design TBD (i) Middle College (i/c) Business, General Studies and Engineering MC2	Computer Science Academy of Finance Ulysses Signature More pathways here

MCPS Future Ready

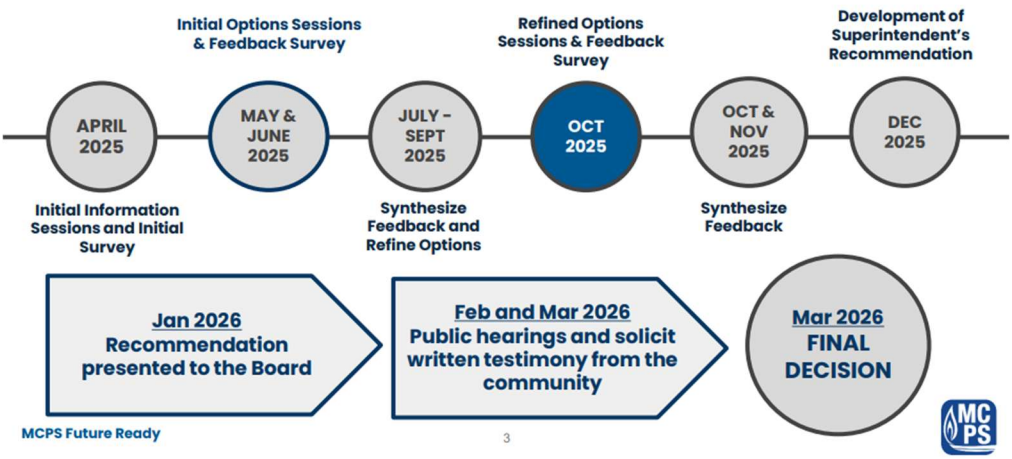
31

(c) criteria-based
(i) interest-based
(i/c) interest with conditions

Timeline. The following chart summarizes the general timeline of the program analysis study thus far. An update from MCPS stated the Boundary and Program Access Plan recommendations from the Superintendent will be provided to the School Board in February 2026. The Board would approve the plan in March 2026.

MCPS plans to progressively implement the program beginning with the 2027-2028 school year with grade 9 students and be fully implemented by 2031. Students starting eighth grade in the coming school year and those currently in high school would be part of a "legacy cohort" and would be able to continue in their current program until they graduate.

Boundary Study Process Updated Timeline



Ready to Launch

Category & Key Action	March 2026	April - May 2026	May - June 2026	July - August 2026
I.Program Frameworks				
Refine and Finalize Course Progressions in Collaboration with School-based Staff	■			
II. Curriculum Development Grade 9 Courses				
Identify Teachers of Existing Courses that Need Scaling Across Regions	■			
Codify Scope & Sequence, Unit Overviews, and Resources for Existing Courses		■	■	
Conduct Peer Reviews of Curriculum Drafts for Exsiting Courses				■
III. Professional Learning				
Convene a Crossfunctional Team to Develop a Comprehensive PL Plan for Teachers and Leaders	■			
Identify School-Based Staff to Support Development of PL Sessions		■		
IV. Student Outreach				
Launch early outreach efforts to families of Grade 7	■			
Prepare admission timeline to include local/regional program information meetings		■		
V. Communication and Outreach				
Create Regional Multilingual Infomational Materials for Families of Grade 8 Students		■	■	
VII. Budget				
Finalize implementation cost (materials, professional learning, etc.)	■			
Align Budget Requests with Pathway Needs				■
VIII. Transportation				
Draft Transportation Routes				■

MCPS Future Ready 33

C. Strong Local Schools

At the November 20th Board meeting, MCPS gave a summary of the work to support Strong Local Schools. After receiving feedback on the previously discussed studies, MCPS stated that (1) MCPS is still thinking about students who are not meeting proficiency; and (2) that if students are remaining in local schools, they have access to rigorous programming. MCPS reports that while they are working on program analysis, they are also working on strengthening local schools with the following goals:

Goal 1: Reduce inconsistencies in curriculum implementation and accountability systems for course quality and outcomes

- Identify current state of curriculum implementation
- Streamline Course Offerings
- Review and Adjust Course Weighting Design Accountability Measures

Goal 2: Address Inconsistencies in preparation, placement practices, and access to advanced academic and elective opportunities across schools.

- Review Current Student Placement and Access Data
- Define Clear and Equitable Placement Criteria for Advanced Courses
- Strengthen Early Preparation Systems

Goal 3: Create a transparent data system to monitor student progress and inform targeted supports

- School Schedule Process Review
- Develop a districtwide Multi-Tiered System of Supports
- Create a comprehensive professional learning plan Progress Monitoring

Goal 4: Ensure the successful implementation of state-driven changes to policy, curriculum, and course pathways to align instructional practices and student learning opportunities

- Study Math Standards
- Adjust master schedule
- Align graduation requirements with new standards

Chapter 2. Summary of Course Requirements and Available Programs for MCPS Middle and High School Students

This chapter provides an overview of the general education requirements that middle and high school students must meet in MCPS. This includes both middle school enrollment requirements and high school graduation requirements. More specifically:

- Middle school students are required to take **five core classes and two electives per year**. The core classes include English, math, science, social studies and physical education.

- At minimum, an MCPS high school student must take four courses per semester to be considered full-time. Students are also required to meet certain MCPS and state criteria to graduate high school including number of credit hours, completion of specific courses and assessments, and community service hours. While most of this coursework is completed in high school, some can be done in middle school.

This chapter also provides an overview of magnet, consortium and other special programs available in middle and high schools throughout the County. It is important to note MCPS uses the term "special" to identify programs in schools that offer resources or learning opportunities beyond or in addition to those available in standard education. These programs are often based on a specific theme, subject area, or career path. MCPS special programs do not include Special Education pathways and coursework.

It is important to note the scope of this report is on general education courses and requirements – while other student pathways are briefly discussed, they are not the focus of this report and therefore not summarized in detail. This includes Special Education (including Alternate Learning Outcomes/ALO) and Emergent Multilingual Learners (EML).

A. Middle School Course Summary and Available Special Programs

This section summarizes middle school course enrollment requirements and available special programs across MCPS. The information in this section is summarized from the MCPS Middle School Catalog, the MCPS website, and interviews with MCPS staff.

1. Middle School Course Overview

The following table summarizes the courses a middle school student typically enrolls in. Students usually take seven courses each semester, which include a set of "core" subjects plus electives. Each year in middle school, students must take an English/ELD, math, science, social studies, and a physical education/health course plus electives that can include world language, music, or other electives (technology, art, etc.). Chapter 5 of this report will provide more details of specific classes available for all MCPS middle school students.

GRADE 6 REQUIRED COURSES	GRADE 7 REQUIRED COURSES	GRADE 8 REQUIRED COURSES
English or ELD Mathematics Science Social Studies Physical Education/Health World Language or Elective Other Elective(s) (full-year, semester, or quarter rotation)	English or ELD Mathematics Science Social Studies Physical Education/ Health World Language or Elective Other Elective(s) (full year, semester, or quarter rotation)	English or ELD Mathematics Science Social Studies Physical Education/ Health World Language or Elective Other Elective(s) (full year, semester, or quarter rotation)
WELL-ROUNDED CURRICULUM REQUIREMENT		
(Minimum of 1 marking period course during grades 6, 7, or 8) Fine Arts Computational Thinking		

*Maryland requires students to have well-rounded course offerings and ensures student enrollment in these courses in middle school. To meet state requirements, students must enroll in each of the following subjects in middle school for at least one marking period: fine arts, physical education, health, and computational thinking.

Middle School Courses Taken for High School Credit. There are numerous courses available at middle school locations that can provide a student with high school credit (this does not include courses in which a middle school student must go to a high school to take a course, discussed next). Middle school students must meet the same requirements as high school students by earning a final grade of A, B, C, or D each semester to receive high school credit. However, while the high school credit courses taken in middle school are included on a high school transcript, the grade points are not calculated into the student's cumulative GPA. Chapter 4 summarizes the high school courses available for middle school students to take at various schools.

Middle School Student Courses Located at High Schools. There are several high school courses in math and world languages that middle school students can take that may not be available at their middle school. Therefore, the student is required to attend the high school for that specific course. Chapter 5 provides a summary of how students are enrolled in those courses, an overview of courses available, and number of students who participated.

2. Middle School Special Programs

Students most often attend the local school that has been designated by the geographic area where they live, with many middle schools having special programs available to these students. However, students may choose to participate in a regional or Countywide program. The table on the next few pages summarizes special programs available for middle school students, including a description of program, location, and admission standards.

In order to identify students for some of these programs in middle schools, MCPS central administration begins a review process in Grade 5 on all students' school system performance data. Students do not have to apply to most middle school special programs. Students whose data meet the criteria for enriched and accelerated instruction in middle school are centrally recommended for enriched and accelerated courses at their local middle school and placed in the candidate pool for regional middle school criteria-based programs. There is more information available on the selection and placement processes in Chapter 3.

It should be noted there are "accelerated and enriched" courses in math and social studies available at all MCPS middle schools. According to the Middle School Course Catalog, these courses are "designed for students who demonstrate readiness for accelerating the pace of instruction while diving deeper into concepts alongside academic peers."

Special Programs Available in Middle Schools

Program	Description	Schools	Admission
International Baccalaureate Middle Years Programme (MYP)	Part of the International Baccalaureate continuum with a focus on practical connections between studies and the real world	Newport Mill SSI Julius West Westland FSK Montgomery Village Neelsville Clemente Silver Creek MLK	Available to Grades 6 to 8, students who are enrolled at the school with the program.
Humanities Communication Program	Emphasizes writing, media production, and world studies focusing on developing ability to use language and media effectively	MLK Eastern	Central review of all eligible students (see below) including previous grades and assessments. Students must live in one of the following clusters to be eligible for MLK: Clarksburg, Damascus, Gaithersburg, Magruder, Northwest, Poolesville, QO, Seneca Valley, or WM. Students must live in one of the following clusters to be eligible for Eastern: BCC, Churchill, WJ, RM, Rockville, Sherwood, Whitman, Wootton, DCC, or NEC.

Special Programs Available in Middle Schools, Continued

Program	Description	Schools	Admission
Mathematics/Science/ Computer Science Program	Accelerated learning of mathematics, science, and computer science concepts	Clemente Takoma Park	Grade 5 students are centrally reviewed including grades, external assessment, and reading level. Admission also considers student's services. Students must live in the following clusters for Clemente: Clarksburg, Damascus, Gaithersburg, Magruder, Northwest, Poolesville, QO, Seneca Valley, or Watkins Mill. Students must live in the following clusters for Takoma Park: BCC, Churchill, WJ, RM, Rockville, Sherwood, Whitman, Wootton, DCC, NEC.
Middle School Magnet Consortium (MSMC)	Specialty courses centered on the instructional focus: • Argyle Magnet School for Digital Design and Development • Loiederman Magnet School for Creative and Performing Arts • Parkland Magnet School for Aerospace Technology	Argyle Loiederman Parkland	Grade 5 students living within Argyle, Parkland, and Loiederman boundaries participate in a Choice process where they rank in order the school they want to attend. Students are guaranteed attendance at one of the schools. Grade 5 students (and Grade 6 students) throughout the County may apply through the Choice process.
World Language Immersion Programs	Spanish, Chinese and French Immersion Programs	*Chinese* Hoover *French* Gaithersburg SSI *Spanish* Gaithersburg Lakelands Park Newport Mill Odessa Shannon SSI Westland White Oak	Open to incoming Grade 6 students who complete the corresponding immersion program at the elementary level. Admission for all other grades is determined by language proficiency and available space.

B. High School Course Summary and Special Programs

This section summarizes high school course enrollment requirements and available special programs across MCPS. The information in this section is summarized from the MCPS High School Catalog, the MCPS website, and interviews with MCPS staff.

1. High School Course Overview

All MCPS high schools offer comprehensive programs of study designed to prepare students for college and the workforce. In addition to grade-level courses, MCPS offers a variety of advanced-level courses including the following: honors courses, college level (CL)/dual enrollment courses, and Advanced Placement (AP) courses. For a full and more detailed description of high school courses available, see the discussion in Chapter 4.

Maryland and MCPS Graduation/High School Diploma Requirements. To receive a diploma in the State of Maryland, students must fulfill four categories of requirements: enrollment, course credit, student service learning hours (SSL), and state assessments.

Enrollment. Students must satisfactorily complete four years of school beyond Grade 8 to meet the state's enrollment requirements.

Course Credits. Students in MCPS must earn 22 credits that include the following courses summarized in the table (unless a preapproved MCPS alternative is used). Typically, each semester course is 0.5 credits, with many courses having an "A" and "B" component, resulting in the entire year long course being one credit. All courses satisfying graduation requirements must be taken for a letter grade.

Maryland and MCPS Graduation Requirements for the Class of 2029

Subject	Credits Required
Computer Science, Engineering or Technology Education (TE)	One credit designated TE (or regular technology education), as designated in the course catalog and includes the study of computers and algorithmic processes or the application of knowledge, tools, and skills to solve practical problems and extend human capabilities
English	Four credits of organized instruction in comprehension of literary and informational texts, writing, speaking and listening, language, and literacy, of which 1 credit shall be aligned with the Maryland Comprehensive Assessment (MCA) for English
Fine Arts	One credit in dance, media arts, music, theatre, or visual art, or a combination
Health Education	One credit, Honors Health Education A/B
Mathematics	Four credits, one including instruction in algebra aligned with the MCA for algebra or one or more credits in subsequent mathematics courses for which Algebra 1 is a prerequisite, and one with the content standards for geometry STATE REQUIREMENT: Students graduating in 2018 and later must be enrolled in a math course in each year of high school
Physical Education	One credit
Science	Three Next Generation Science Standards (NGSS) credits, including one life science credit aligned to the Life Science Maryland Integrated Science Assessment (MISA), one physical science credit, and one credit in Earth/space science or an NGSS course with the topics of Earth/space science integrated
Social Studies	Three credits including one U.S. History credit, one World History credit, and one National, State, and Local Government credit aligned with the MCA for government
World Languages or Program of Studies and Electives	Two credits of the same world language which may include two credits of American Sign Language and two credits in elective courses or Complete a state-approved career and technical education (CTE) program of study (POS) and a minimum of 0.5 credit in elective courses or more depending on POS

Student Service Learning (SSL) hours. Students are required to complete 75 hours of student service learning. This requirement is prorated for students enrolling in MCPS for the first time after Grade 6.

State Assessments/Maryland Comprehensive Assessment Program (MCAP) Requirements. The MCAP consists of tests developed for or adopted by the Maryland State Department of Education (MSDE) that are aligned with and measure a student's skills and knowledge. Students take these assessments as they complete the corresponding courses (MCAP also includes the Alternate Assessments for select students). The following summarizes the specific requirements:

- Algebra 1: One course credit in Algebra 1 and completion of the Algebra 1 assessment at the end of the B semester course.
- English 10: One course credit earned in English 10 or equivalent or English 10 for EMLs and completion of the English Language Arts/Literacy assessment at the end of the B semester course.
- Government: One course credit earned in National, State, and Local Government or equivalent and completion of the Government End of Course (EOC) assessment at the end of the B semester course. AP Government students must take either the AP Government Exam or the MCAP Government EOC assessment.

- Science: One course credit earned in biology or equivalent and completion of the Life Science End of Course (EOC) assessment at the end of the B semester course. AP Biology students must take the Biology EOC assessment.

Promotion to Next Grade. MCPS Regulation JEB-RA, Placement, Promotion, Acceleration, and Retention of Students details the credit requirement for high school students to be promoted to a higher grade. Overall, MCPS requires that high school students earn five credits each year to be promoted, including specific required credits in English, mathematics, science, and social studies, summarized below.

End of:	Total Credits Needed for Promotion to Next Grade	Math	English	Science	Social Studies	Other Courses
Grade 9	5	1	1	0	0	3
Grade 10	10	2	2	1	1	4
Grade 11	15	3	3	2	2	5

2. MCPS High School Special Programs

MCPS offers an array of high school programs that provide specified instruction in a variety of study areas including enriched/accelerated, thematic, career readiness, or dual enrollment programs. Some programs are open only to students in the sponsoring school, while others are open to all students in a specific region or in the County - these programs have different entrance criteria and application processes. These programs can be offered at the local high school for locally assigned students or through an application process at the regional or Countywide level.

MCPS has the following categories for what programs are available for students:

- Local School Only – these programs/courses are only available for students assigned to the local school.
- Consortia – allows students to apply to participating schools through a choice process within one of two consortia - Downcounty Consortium (DCC) region or Northeast Consortium (NEC).[5]
- Regional – programs available by application to students in a particular geographic region of the County.
- Countywide – programs available by application for students throughout the County.

The following table summarizes programs currently available at MCPS high schools. MCPS staff report that there are various models for the same programs (i.e. the Project Lead the Way curricula exists in local high schools by student select, lottery, and criteria-based admission). For a full listing of programs, see Appendix. The remainder of this section will describe these programs in more detail.

[5] The Downcounty Consortium includes five high schools and their feeder middle and elementary schools—Blair, Einstein, Kennedy, Northwood, and Wheaton. The Northeast Consortium (NEC) includes three high schools and their feeder middle and elementary schools—Blake, Paint Branch, and Springbrook.

Number of Special Programs by High School

High School	Academic Programs/Local School Programs	Academic Choice Programs (Consortiums)	Application Programs			CTE Programs of Study (POS)[6]
			Regional	Countywide	Local	
BCC	4					6
Blair	3	5	1		1	9
Blake	2	4				9
Churchill	1				1	5
Clarksburg	1				1	12
Damascus	2					10
Einstein	3	4		1		7
Gaithersburg	2		1			17
Kennedy	1	4	2			13
Magruder	1				1	15
Northwest	3				1	8
Northwood	3	5				10
Paint Branch	1	2				14
Poolesville	2		2	1		6
Quince Orchard	3					10
Richard Montgomery	3			1		4
Rockville	3		6			7
Seneca Valley	5		5			21
Sherwood	1			1		10
Springbrook	3	2	1			10
Walter Johnson	1				1	8
Watkins Mill	4		1			12
Wheaton	2	4	5			8
Whitman	1			1		6
Wootton	1				1	7

Local School Programs. In addition to offering a comprehensive high school program, many high schools offer programs that integrate a specific focus or theme with skills, concepts, and instructional strategies for some portion of a school's curriculum. Some programs require an application (i.e. Ulysses Program at Northwest High School or Humanities and Arts Signature Program at Wootton), while many programs allow students to just enroll, with certain criteria met (i.e. dual enrollment programs require minimum GPA). Some notes about local school programs:

- Dual Enrollment is the most prevalent local school program and available to students from all 25 comprehensive high schools and Thomas Edison High School of Technology. For more information about specific courses in Dual Enrollment, see Chapter 4.

[6] For a full list of CTE programs by school, see Appendix B.

- Seneca Valley HS has the most overall programs including Dual Enrollment, International Baccalaureate Career Programme, International Baccalaureate Diploma Programme, Middle Years Programme (MYP) Grades 9-10, Multidisciplinary Educational Training and Support Program (METS), and the most approved CTE programs.

MCPS provided OLO with a list of signature programs and academies across MCPS high schools. OLO was able to identify many of these through the school's individual websites but notes that not all programs are identified online. The Appendix summarizes the programs available to students in MCPS high schools for students attending their home schools.

Choice Programs for Students Living in Consortiums. MCPS currently has two consortiums for students: the Northeast Consortium (NEC) and the Downcounty Consortium (DCC).

The NEC includes three high schools: James Hubert Blake, Paint Branch, and Springbrook (and their feeder middle and elementary schools). Grade 8 students who live in the NEC participate in a lottery choice process for assignment to an NEC high school. Grade 8 students who attend an NEC middle school but live outside the NEC may also participate in the lottery Choice process for assignment to an NEC high school. Each high school offers a unique signature program:

- Blake - Fine Arts and Humanities;
- Paint Branch - Science and Media; and
- Springbrook - IB World and Information Technology.

The DCC includes five high schools: Montgomery Blair, Albert Einstein, John F. Kennedy, Northwood, and Wheaton (and their feeder middle and elementary schools). Grade 8 students who live in the DCC participate in a lottery Choice process for assignment to a DCC high school. Grade 8 students who attend a DCC middle school but live outside the DCC may also participate in the lottery Choice process for assignment to a DCC high school. Each high school offers the following unique academies.

DCC High School	DCC Programs
Montgomery Blair	Entrepreneurship and Business Management Human Service Professions International Studies and Law Media, Music, and the Arts Science, Technology, Engineering, Math
Albert Einstein	Finance, Careers and Technology International Baccalaureate (IB) Academy and Diploma Program Renaissance Academy for College Readiness Teacher Academy of Maryland Visual and Performing Arts
John F. Kennedy	International Baccalaureate (IB) Diploma Program Business Administration and Management Academy Broadcast Journalism & Communication Academy Naval Junior Reserve Officer Training Corps (NJROTC) Healthcare Professions Teacher Academy of Maryland
Northwood@ Woodward	Finance, Accounting, Marketing & Education Humanities, Arts, and Media Music, Theatre and Dance Politics, Advocacy, and Law Technology, Environmental, and Systems Sciences Montgomery College Middle College (MC2)
Wheaton	Bioscience Engineering Global Studies: Art, Music, Drama, Humanities and World Languages Information Technology—Programming and Web Design, Information Resource Design

The DCC also has several criteria-based application-only programs (discussed earlier). Some programs are available to all MCPS students, some are for students in specified school clusters, and some are designated for only DCC students.

Regional and Countywide Application Programs. In addition to signature programs offered at a student's local high school, MCPS offers numerous regional/countywide interest and criteria-based high school application programs.

Most MCPS' regional/countywide programs implement a lottery placement model – all students who meet certain criteria (primarily geographical) may apply to an interest-based program. The lottery may consider socioeconomics of the student, the school, geographic area of the student, home school and other criteria. Students are either granted acceptance into the program (which they can accept or decline) or are put on a waitlist. When vacancies occur, students will be invited in order of their waitlist number. Students may apply to as many programs as they choose.

MCPS' criteria-based programs use multiple measures to determine a student's placement in one of these programs. This evaluation can include an external assessment (MAP-R and MAP-M), report card grades (from 7th and 8th grade), student services, and student application. Teacher recommendations are not used. A committee will review the application and the performance data of each applicant. Students who

apply to criteria-based programs will receive a notice of either being invited, placed in a wait pool, or not selected. Similar to lottery-based programs, students on the waitlist will be notified of vacancies in the order of the waitlist.

There is limited central stop transportation available for most regional/countywide programs and requires that students get to a central location to access MCPS bus transportation to a school that is not their local school. These stops are generally at a public setting, such as schools or libraries and students are responsible for getting themselves to the central stop.

Regional and Countywide CRITERIA BASED High School Programs

Program	School	Description	Eligibility
Project Lead the Way (PLTW)	Wheaton	Engineering: Aerospace, mechanical, civil, and electrical engineering Biomedical: Multiple medical fields including pre-medical, medical, and biomedical programs	• Grade 8 County residents who live in the DCC -- Blair, Einstein, Northwood, Kennedy, Wheaton or • Students currently attending a DCC middle school (Argyle, Eastern, Odessa Shannon, Loiederman, Newport Mill, Takoma Park, Parkland, Sligo, Silver Spring Int'l) • Currently or previously enrolled in Algebra 1 or higher
Science, Math and Computer Science	Montgomery Blair	Accelerated instruction in math, science, and computer science	• Grade 8 County residents who live in the following HS clusters: BCC, Churchill, WJ, RM, Rockville, Sherwood, Whitman, Wootton, NEC- Paint Branch, Springbrook, Blake, and DCC – Blair, Einstein, Northwood, Kennedy, Wheaton • Currently or previously enrolled in Algebra 1 or higher
Regional International Baccalaureate Diploma Program (IB)	Kennedy	International program is a diverse curriculum that emphasizes international-mindedness and global citizenship	• Grade 8 students who live in the following HS clusters: BCC, Churchill, Whitman, WJ, DCC – Blair, Einstein, Northwood, Kennedy, Wheaton • Enrolled in at least level I of Spanish or French or are bilingual in one of those languages
Leadership Training Institute (LTI)	Kennedy	Partners with the Universities of Maryland and Richmond Institute with focus on interdisciplinary curricula, leadership training, group decision making, problem solving, higher-level thinking skills, community service, and role modeling	• Grade 8 County residents who live in the DCC -- Blair, Einstein, Northwood, Kennedy, Wheaton or • Students currently attending a DCC middle school (Argyle, Eastern, Odessa Shannon, Loiederman, Newport Mill, Takoma Park, Parkland, Sligo, SSI)
Global Ecology	Poolesville	The science and cultural, social, political, economic, and technological conditions that affect the quality of life on our planet	• Any Grade 8 County resident • Currently or previously enrolled in algebra or higher

Regional and Countywide CRITERIA BASED High School Programs, Cont'd

Program	School	Description	Eligibility
Humanities	Poolesville	Humanities curricula with an interdisciplinary focus on English, social studies, communications, and fine arts	• Grade 8 County residents who live in the following HS clusters: Clarksburg, Damascus, Gaithersburg, Magruder, Northwest, Poolesville, QO, Seneca Valley, Watkins Mill
Science, Math and Computer Science	Poolesville	Accelerated instruction in math, science, and computer science	• Grade 8 County residents who live in the following HS clusters: Clarksburg, Damascus, Gaithersburg, Magruder, Northwest, Poolesville, QO, Seneca Valley, Watkins Mill • Currently or previously enrolled in algebra or higher
Visual Art Center (VAC)	Einstein	Honors-AP level, pre-college, art portfolio development program for visual artists	• Grades 8 – 11 County residents • Portfolio required for consideration
Regional International Baccalaureate Diploma Program (IB)	Springbrook	International program is a diverse curriculum that emphasizes international-mindedness and global citizenship	• Grade 8 students who live in the following HS clusters: Magruder, Rockville, Sherwood, NEC (Paint Branch, Springbrook, Blake) • Enrolled in at least level I of Spanish or French, are bilingual in one of those languages
Countywide International Baccalaureate Diploma Program (IB)	Richard Montgomery	International program is a diverse curriculum that emphasizes international-mindedness and global citizenship	• Any Grade 8 County resident • Enrolled in at least level I of Spanish, French, or Chinese or are bilingual in one of those languages
Communication Arts Program (CAP)	Montgomery Blair	Focus on intellectual, creative, and communication skills in the fields of media and the humanities	• Grade 8 County residents who live in the DCC (Blair, Einstein, Northwood, Kennedy, Wheaton) or • Attended a DCC middle school (Argyle, Eastern, Odessa Shannon, Loiederman, Newport Mill, Takoma Park, Parkland, Sligo, SSI)
Regional International Baccalaureate Diploma Program (IB)	Watkins Mill	International program is a diverse curriculum that emphasizes international-mindedness and global citizenship	• Grade 8 County residents who live in the following HS clusters: Clarksburg, Damascus, Gaithersburg, Northwest, Poolesville, QO, Seneca Valley, Watkins Mill and Wootton • Enrolled in at least level I of Spanish or French or are bilingual in one of those languages

Regional and Countywide LOTTERY BASED High School Programs

Program	School	Description	Eligibility
Leadership Academy for Social Justice (LASJ)	Walt Whitman	Cross-curricular program in which students become active and socially responsible leaders, committed to advancing social justice in their local community	• All Grade 8 County residents
Pathways in Network and Information Technology Program of Study (P-TECH)	Clarksburg	Study of network operations and information technology along with an opportunity to earn industry certification, college credit, and an associate's degree	• Grade 8 County residents who live in the following HS clusters: Clarksburg, Damascus, Gaithersburg, Northwest, Poolesville, QO, Seneca Valley, Watkins Mill, Magruder
Project Lead the Way (PLTW) Biomedical Sciences	Gaithersburg	Multiple medical fields including pre-medical, medical, and biomedical programs	• Grade 8 County residents who live in the following HS clusters: Clarksburg, Damascus, Gaithersburg, Northwest, Poolesville, QO, Seneca Valley, Watkins Mill, Magruder
International Baccalaureate Career-related Programs (IB/CP)	Rockville	Specific career-related pathway with IB academic courses, service learning, and a reflective project: • PLTW Biomedical Sciences • PLTW Engineering • Computer Science • Hospitality Management • Child Development Associate	• Grade 8 students who live in the following HS clusters: Magruder, Rockville, RM, Sherwood, NEC (Paint Branch, Springbrook, Blake) and DCC (Blair, Einstein, Northwood, Kennedy, Wheaton)
Navy Junior Reserve Officers Training Corps	Kennedy	Combines leadership development, academic studies and service	• Grade 8 students who live in the following HS clusters: BCC, Churchill, Whitman, WJ, DCC (Blair, Einstein, Northwood, Kennedy, Wheaton)

Regional and Countywide <u>LOTTERY BASED</u> High School Programs, Cont'd

Program	School	Description	Eligibility
Aviation and Aerospace	Magruder	Study of flight/aircraft systems, including the opportunity to earn a private pilot license and/or remote pilot certificate and/or college credit	• All Grade 8 County residents
Regional College and Career Programs	Seneca Valley	• Healthcare Professions • Hospitality and Tourism Management • Information Technology & Cyber Security • Construction Management and Architecture • Project Lead the Way Engineering	• Grade 8 students who live in the following HS clusters: Clarksburg, Damascus, Gaithersburg, Northwest, Poolesville, QO, Seneca Valley, Watkins Mill, Magruder
Middle College at Montgomery College (MC^2)	Northwest and Northwood@ Woodward	Earning college credits through a combination of courses (i.e. Advanced Placement and college courses)	• **Northwest HS**- Grade 8 County residents who live in the following HS clusters: Clarksburg, Damascus, Gaithersburg, Magruder, Northwest, Poolesville, QO, Seneca Valley, Watkins Mill • **Northwood HS**- Grade 8 County residents who live in the following HS clusters: BCC, Churchill, WJ, RM, Rockville, Sherwood, Whitman, Wootton, NEC (Paint Branch, Springbrook, Blake) or DCC (Blair, Einstein, Northwood, Kennedy, Wheaton)

Career and Technical Education (CTE). CTE programs combine strong academics with technical skills and real-world professional experiences. According to data provided by MPCS, there are 51 CTE programs offered across all 25 high schools (there are at least three CTE programs of study at each school). MCPS groups careers into 11 different clusters – summarized in the next table. For a full listing of programs at individual schools, see Appendix.

It should be noted that MPCS staff reported that the State Department of Education is making changes to CTE programming in all Maryland schools starting in the 2027-2028 school year.

Programs of Study	Career Clusters
Arts, Media and Communications	Broadcast Media Graphics Communication (Print ED) Interactive Media Production
Business Management and Finance	Academy of Finance Accounting and Finance Business Management Marketing
College and Career Research and Development	Apprenticeship Maryland Program College/Career Research and Development
Construction and Development	Carpentry Construction and Design Construction Electricity Construction Management Heating, Ventilation, and Air Conditioning (HVAC) Masonry Plumbing Principles of Architecture and CAD Technology Design
Consumer Services, Hospitality, and Tourism	Cosmetology
Hospitality and Tourism Management Program (HTMP)	Hospitality Management Professional Restaurant Management Culinary Arts (ACF)
Environmental Sustainability and Agribusiness	Certified Professional Horticulturist Curriculum for Agricultural Science Education (CASE)
Health and Biosciences	Academy of Health Professions: Certified Nursing Assistant Academy of Health Professions: Pharmacy Technician Academy of Health Professions: Certified Clinical Medical Assistant Academy of Health Professions: Physical Rehabilitation Academy of Health Professions: Allied Health Intern Academy of Health Professions: Allied Health Dual Enrollment Academy of Health Professions: Biomedical Sciences/Health Profession Biomedical Sciences: Project Lead the Way (PLTW) Biotechnology
Information Technology and Cybersecurity	Academy of Information Technology (AOIT) - Web Design Computer Science/Code.org IT Networking Academy (CISCO) Mobile Application and Software Development (Apple) Network Operations Pathways in Network and Information Technology (P-TECH)
Public Leadership	Army/Navy Junior Reserve Officers Training Corps Child Development Associate Preschool Early Child Development Teacher Academy of Maryland Fire Science and Rescue/Fire Emergency Medical Training Law Enforcement: Homeland Security Justice, Law, and Society
Manufacturing and Engineering	Advanced Engineering Technology: Project Lead the Way
Transportation Technologies	Automotive Technology Local Automotive Collision Repair Automotive Collision Repair - NATEF Automotive Technology Maintenance Aviation and Aerospace Program

C. Other MCPS Course Programs – Alternative Learning Outcomes (ALO) and Emergent Multilingual Learning (EML)

MCPS also provides alternative course pathways for students, including ALO for students seeking an alternative diploma and EML courses for students learning English.

Alternative Learning Outcome (ALO) Courses. There are a significant number of classes identified as ALO courses that OLO did not include in this study. ALO courses are for students in kindergarten through grade 12 with significant cognitive disabilities. Students are pursuing ALOs (opposed to a diploma), which are aligned with the Maryland Alternate Achievement Standards. The focus of these classes is real world application in school and community settings along with opportunities to participate in instructional experiences with their non-disabled peers. The specific ALOs and the strategies used to support student progress are outlined in each student's Individualized Education Program (IEP). ALO courses are available at the following middle and high schools and include courses in art, community-based instruction, culinary arts, English, employment training, math, reading, music, science, social studies, and transition skills.

Middle Schools		**High Schools**	
Baker Banneker Cabin John Clemente	Farquhar MV Newport Mill Tilden	Damascus Einstein Gaithersburg WJ Kennedy Paint Branch	Rockville Seneca Valley Springbrook Whitman Watkins Mill Wheaton

Emergent Multilingual Learner (EML) Courses. MCPS provides English courses for students learning English, or EML. These students are provided courses under the English Language Development (ELD) program. ELD instruction focuses on developing listening, speaking, reading, and writing skills in English. EML students are eligible to receive ELD services based on their scores on the WIDA ACCESS for ELLs assessment and are typically students who are learning English as an additional language. OLO did not include EML courses in this course inventory but found that most middle and high schools offer EML courses in all grades.

Chapter 3. MCPS Course Selection Policy and Overview of All Courses

This chapter provides a high-level overview of courses in MCPS middle and high schools – including how schools select the courses offered and the overall number of courses available in both middle and high schools (including those courses available in middle school that meets high school requirements).

A. MCPS Policies for Course Selection in Middle and High Schools

MCPS does not have a formal written policy for the selection of courses available at individual schools. The process used to select courses available to students is primarily the choice and responsibility of the individual schools, with schools varying in how courses offered are selected.

Overall, every school offers similar courses that are required for graduation. For elective courses, MCPS staff report the primary driver for the selection of courses in a school is student interest. The goal of MCPS is "to meet students where they are." Schools use different methods to gather and gauge student interest in a course – some schools conduct surveys of the student body, but MCPS report that the most predominant way is for students and/or teachers lead advocacy efforts on their own. Ultimately, it is the decision of the principal whether a course is offered in a particular school. However, there are some basic requirements for offering a new course in a school:

- Must have a teacher with required qualifications/skills to teach the course;
- Must have enough enrollment/interest – there is no standard for number of students required but MCPS often aims for 28-32 students per class; and
- The course must not be a restricted course unless it is being offered in a restricted program (i.e. IB courses can only be offered to students in IB programs).

If a school would like to add a course to its offerings, there are two ways to accomplish it. The principal will work with central administration to determine whether the course is already in MCPS' course "catalog." This catalog is a central database of all courses that MCPS has approved to be taught (and typically other schools already offer the course). If the course is already in the catalog, it is relatively easy to have it approved by central administrators to be offered in the school. If the course is not already in the catalog, the principal (and/or other school staff) works with central administrators to get approval. This process takes a longer period of time. MCPS staff report that if a principal really wants to offer a class, MCPS central administration will do its best to make it work.

In general, school staff will work with the central scheduling team to cut and add staff based on course enrollment (for all classes, not just new courses to a school). If there is a lack of enrollment, inefficient costs, or loss of teacher, MCPS may sunset a course in any given school.

School Catalog. There are two types of school catalogs/course selection guides for MCPS – one for all schools (completed by central administration and considered the official course catalog) and individual school catalogs (not available for all schools).

- The MCPS middle school course catalog includes an overview of courses students must take in Grades 6, 7, and 8, as well as electives and special programs that may be available to students. The programs and electives may not be offered at all middle schools, and individual schools may offer additional courses not identified in the MCPS catalog. OLO identified several individual middle

schools that have an online school catalog available for students, with staff reporting that some middle schools may also have hard copy catalogs or electronic catalogs only available to students. Further, MCPS staff report not all schools provide students with a specific school course catalog but rather instruct students to use the MCPS central catalog.

- The central MCPS high school catalog summarizes the currently approved courses offered in MCPS high schools; however not all schools offer all courses in the catalog. Individual high schools may also create their own school course catalog (OLO was able to find 22 high school course catalogs online). Schools will often take the central catalog and supplement it – the school will remove classes it does not offer and add courses it does that are not in the central catalog.

MCPS staff report there are some concerns with the course catalogs:

- Schools that only use the central catalogs can be confusing for students because not all courses in the central catalog are available at every school and there are additional courses available at schools not in the catalog.
- MCPS staff report that Editorial, Graphics & Publishing Service (EGPS) would send school catalog to central office for review. However, there is currently no approval process for individual school catalogs by central administration. These catalogs are not cross-checked with the official catalog or school websites. MCPS conducted an internal study and found inconsistencies across catalogs and websites regarding what courses are available.

Student Placement in MCPS Courses

The focus of this report is to provide an inventory of courses across MCPS middle and high schools. However, OLO would like to note that an important aspect of course availability for students is access to enrollment in those classes and how MCPS places students in courses and/or pathways. MCPS staff report the placement of students in particular courses is a combination of several factors:

- Academic performance/previous academic achievement;
- Internal assessment results;
- External assessment results (i.e. state assessments);
- Necessary prerequisites; and
- Teacher recommendations.

Student choice and interest is also a primary driving force for student placement in courses – particularly for elective courses. Parents and guardians may also impact a student's placement by contacting the school and working with staff to find the correct placement if the parent/guardian believes it to be wrong.

MCPS staff also report that a student's placement may be changed after the beginning of a course. If a student is identified by the teacher as needing to be in a more or less advanced course. The school will work with the student and his/her parent/guardian to find the right placement.

Further, MCPS staff report if a student would like to take a course that is not available at their home school but is available at another school, that student can work with the counselors to enroll in the course in another school.

B. Overview of All Courses in MCPS System

As stated above, MCPS maintains a "catalog" of courses that have been approved by central administration to be offered by a school. Not all courses in this catalog are offered; however, if a school would like to offer them, the approval process is much simpler if they are already part of this catalog (see discussion above).

MCPS provided OLO with a file containing all courses in the catalog for middle and high schools. For courses that had an A and B component (i.e. Algebra IA and Algebra IB), OLO combined those into one course for the purposes of this report. The following table provides an overall summary of the number of courses readily available for MCPS to offer for each subject area. Because it was not the focus of this report, OLO did not include EML and ALO courses in this table.[7]

[7] EML courses are for Emergent Multilingual Learners and Alternative Learning Outcomes (ALO) courses are for students who are not diploma bound.

Subject/ Content Area*	High Schools Courses (Available 9th-12th Grades)	Both High School and Middle Schools Courses (Available in 6th-12th Grade)	Middle Schools Courses (Available in 6th-8th Grade)	Total
Environmental, Agricultural and Natural Resources (EANR formerly AGB)	19	1	3	23
Arts, Media and Communications (AMC)	22	2	4	28
Art (ART)	153	4	58	215
Healthcare Professions and Biosciences (BHP)	25			25
Business Management and Finance (BMF)	38	1		39
Consumer Services, Hospitality, and Tourism (CHT)	21		1	22
Construction (CON)	68			68
Education (EDU)	24		4	28
English (ENG)	83	2	31	116
Engineering (ENR)	26		16	42
Health and Physical Education (HPE)	37		6	43
Information Technology and Cybersecurity (ITC)**	64	2	17	83
Junior ROTC (JRO)	9			9
Math (MAT)	49	20	12	81
Justice, Law and Society (PGS)	24			24
Science (SCI)	98	4	17	119
Social Studies (SOC)	106	1	19	126
Technology Education (TEC)**	13	4	3	20
Transportation (TRN)	28			28
Work Based Learning (WBL)	12	1	1	14
World Languages (WGL)	134	30	8	172
TOTAL	1053	72	200	1325

*This table does not include courses under the following course IDs: Non-Academic Courses (NAC), Non-Subject Specific (NSS), and Staffing (STF).
** ITC are computer science courses; TEC are technical education courses.

Courses Available to Middle School Students that Fulfill High School Graduation Requirements. OLO asked MCPS to identify courses available to middle school students that can be used towards the completion of an MCPS graduation requirement. MCPS identified 68 courses in the MCPS catalog available to middle schoolers that can fulfill a high school graduation requirement; however, only 37 of these courses were offered in any middle school in Spring 2025. The table below summarizes the courses available to middle schools – World Languages by far has the largest number of courses available (24). Loiderman is the only school with art courses that meet the Fine Arts credit and Parkland is the only middle school that have a course that meets a science requirement and one that meets the elective requirement. For a full summary table of all classes in the catalog available to middle school students that meet one graduation requirement, see Appendix.

Graduation Requirement	Course Name	Number of Middle Schools Offering Course
Math		
	Algebra 1A/B	40
	Honors Algebra 2A/B	3
	Honors Geometry A/B	38
	Magnet Geometry A/B	2
Fine Arts		
	Dance Fine Art A/B	1
	Foundation of Art and Culture A/B	1
	Concert Band A/B	1
	Concert Orchestra A/B	1
Technology Education		
	Foundations Computer Science TE A/B	27
	Introduction to Engineering Design A/B	21
	Foundations of Engineering and Technology A/B	5
World Languages		
	Spanish 1A/B	39
	Spanish 2A/B	39
	French 2A/B	35
	French 1A/B	30
	Honors Spanish 3A/B	29
	MS FY Spanish 1A/B	19
	Honors French 3A/B	19
	Spanish For Spanish 1A/B	18
	MS FY French 1A/B	15
	Spanish For Spanish 2A/B	14
	Spanish Literacy 1A/B	13
	Spanish Language Immersion 1A/B	7
	Chinese 2A/B	6
	Spanish Language Immersion 2A/B	6
	Chinese 1A/B	4
	MS FY Chinese 1A/B	3
	Spanish Language Immersion 3A/B	3
	Honors Chinese 3A/B	2
	French 3A/B	2
	French Language Immersion 1A/B	2
	French Language Immersion 2A/B	2
	French Language Immersion 3A/B	2
	Chinese Language Immersion 1A/B	1
	Spanish 3A/B	1
Other		
NGSS Physical Science NGSS Earth and Space Systems NGSS Science	Honors Physics A/B	1
Elective	Astronomy A/B	1

CHAPTER 4. Summary of High School Courses

This chapter provides an overview of all courses available to high school students across MCPS – including both core courses and elective courses. It does not include an analysis of alternative course pathways including English Language Learners pathways, ALO courses, and Montgomery College courses that high school students may take. There is a short description of some of those courses at the end of this chapter.

It is important to note this chapter is a summary - for a complete listing of all MCPS courses by school, please see Appendix. Key features of the information outlined in this chapter are as follows:

- MCPS provided enrollment by course and school for the Spring of 2025, which is the data summarized;
- All courses with at least one student enrolled were included in this information;
- High school courses are often across two semesters and therefore OLO combined courses (for example, Honors Geometry A and Honors Geometry B are listed as Honors Geometry A/B and the enrollment for the "A" class is included if the numbers did not match because students joined or dropped the course);
- This data does not include courses at Thomas Edison High School of Technology or Student Online Learning; and
- Course summaries are provided by subject area.

The chapter is organized as follows. Because courses in multiple subject areas can meet the elective requirement, each subject area identifies both "core" and elective course within that subject area (see core versus elective discussion below).

A. Subject Areas Which Require Four Years of Credits – English and Math;
B. Subject Areas Which Require Two or Three Credits – Science, Social Studies, and World Languages;
C. Subject Areas Which Require One Credit – Computer Science, Engineering or Technology Education, Fine Arts, Health, and Physical Education;
D. Career Technical Education (CTE) Pathways;
E. AP Course Summary; and
F. Other Available Courses.

Further, this chapter does not provide any information on equity of availability of these courses. Equity will be addressed in Chapter 6. This chapter solely provides an inventory of courses in MCPS high schools.

"Core" Versus "Elective." This chapter designates each course as either "core" or "elective." OLO determined whether a course was core or elective by the graduation requirement met for the specific course. As a reminder, the following chart summarizes the graduation requirements for MCPS students.

Subject	Credits Required
Computer Science, Engineering or Technology Education (TE)	**ONE** credit designated TE, includes the study of computers and algorithmic processes or the application of knowledge, tools, and skills to solve practical problems
English	**FOUR** credits of organized instruction in comprehension of literary and informational texts, writing, speaking and listening, language, and literacy
Fine Arts	**ONE** credit in dance, media arts, music, theatre, or visual art, or a combination
Health Education	**ONE** credit, Honors Health Education A/B
Mathematics	**FOUR** credits, one including algebra and geometry STATE REQUIREMENT: Students graduating in 2018 and later must be enrolled in a math course in each year of high school
Physical Education	**ONE** credit
Science	**THREE** Next Generation Science Standards (NGSS) credits, including life science credit aligned to the Life Science Maryland Integrated Science Assessment, physical science credit, and credit in Earth/space science or an NGSS course/credit with the topics of Earth/space integrated
Social Studies	**THREE** credits including one U.S. History credit, one World History credit, and one National, State, and Local Government credit aligned with the MCA for government
World Languages or Program of Studies and Electives	**TWO** credits of the same world language **and TWO** credits in elective courses **or** complete a state-approved career and technical education (CTE) program of study

MCPS provided OLO with a list of all courses that meet one of these graduation requirements, and this chapter summarizes the courses using those definitions:

- Courses that meet one of the graduation requirements for a specific subject are considered "core" – CTE, English, Fine Arts, Health Education, Mathematics, Physical Education, Science, Social Studies, World Languages; and
- Courses that meet the Elective graduation requirement or do not meet any graduation requirements are considered "elective" for the purposes of this report. Courses that meet the elective requirements are available in many subject areas.

The following table provides a high-level summary of courses that students were enrolled in MCPS high schools in Spring 2025.[8] This table is organized by what graduation requirement the course meets (i.e. Einstein has 16 courses that meet the English requirement for graduation and includes IB/magnet specific courses, ROTC courses, and internship opportunities). It does not include EML or ALO courses. Some highlights from the chart include:

- Montgomery Blair, which has a significant number of special programs, had the greatest number of overall courses and had the most math, science, fine arts, and elective courses;

[8] OLO identified 68 courses that can be repeated for credit – most of these courses (51 or 75%) were art courses (for full list of courses that can be repeated see Appendix).

- CTE courses had the biggest range of availability between the number of courses by school - nine at Richard Montgomery and 55 at Seneca Valley; and
- Fine Arts courses, on average, were the most common type of course in high schools.

Overall, OLO found that many "core" courses are found in all high schools, particularly in English, math, social studies, science and health/physical education. OLO also found a primary driver of which courses are available (especially elective courses) in an individual school are related to the special programs available at that school. For example, schools with Academies of Finance would likely have more Business, Management and Finance Courses (BMF) than those that do not.

The remainder of this chapter summarizes the courses available in MCPS schools by subject area. It is organized by the number of graduation credits required in each area. ***It is important to note that some courses may meet more than one type of graduation requirement (but cannot be used for more than one). For a full listing of all courses by high school and the graduation requirements they may meet, see Appendix.***

Number of Courses by Subject Area for MCPS High Schools (Largest and Smallest Values Highlighted)

	Enrollment	English	Math	Science	Social Studies	World Languages	HPE	Fine Arts	CTE	Reg Tech Ed	Elective	Total
Albert Einstein High	2,012	16	15	14	8	29	9	49	27	4	34	205
Bethesda-Chevy Chase High	2,335	13	22	21	13	41	9	44	23	3	44	233
Clarksburg High	2,251	13	18	17	12	21	10	33	26	5	34	189
Col. Zadok Magruder High	1,686	15	18	19	11	20	10	29	52	4	28	206
Damascus High	1,414	12	14	16	7	13	9	31	26	3	23	154
Gaithersburg High	2,436	13	19	18	11	18	12	34	40	4	26	195
James Hubert Blake High	1,784	12	16	12	11	18	9	53	24	5	32	192
John F. Kennedy High	1,827	23	23	19	12	22	11	36	34	4	32	216
Montgomery Blair High	3,204	12	29	40	8	27	12	56	27	3	77	291
Northwest High	2,484	11	18	13	8	17	9	38	24	5	39	182
Northwood High	1,796	15	19	16	11	18	8	42	32	4	29	194
Paint Branch High	2,135	13	17	19	8	19	10	25	50	4	30	195
Poolesville High	1,309	15	24	32	11	11	2	21	15	5	38	174
Quince Orchard High	2,154	16	19	17	10	23	10	44	32	4	30	205
Richard Montgomery High	2,390	22	26	26	12	37	9	42	9	6	41	230
Rockville High	1,516	17	19	19	13	26	10	26	20	5	33	188
Seneca Valley High	2,239	17	23	16	13	24	9	45	55	3	43	248
Sherwood High	1,721	13	16	15	7	10	10	35	29	5	24	164
Springbrook High	1,838	17	19	22	10	27	9	30	35	4	32	205
Thomas S. Wootton High	1,911	12	18	16	7	24	10	34	18	2	32	173
Walt Whitman High	2,018	10	16	18	9	38	8	36	21	3	35	194
Walter Johnson High	2,942	15	19	19	12	30	9	47	22	6	37	216
Watkins Mill High	1,715	16	22	18	12	25	8	25	23	4	41	194
Wheaton High	2,599	12	21	16	11	21	9	33	25	4	32	184
Winston Churchill High	2,234	16	20	18	13	21	8	45	12	5	36	194
Average	**2,078**	**15**	**20**	**19**	**10**	**23**	**9**	**37**	**28**	**4**	**35**	**201**

It should be noted that a course in a specific subject area may meet the graduation requirement for that subject, may not meet the requirement, or may meet multiple graduation requirements (but can only count toward one).

A. Subject Areas Which Require Four Years of Credits

There are two subject areas – English and math – that require students to have four credits to meet graduation requirements. Both subject areas also have elective courses that students may enroll in as a replacement or supplement to the standard requirements.

English (ENG). MCPS offers both core/required and elective courses in English. Students are required to have at least four English course credits to graduate and most take one each year. There is a standard English pathway which most students follow; however, there are alternative pathways available.

Core Courses. MCPS offers four core English courses for all students – Honors English 9A/B, Honors English 10A/B, Honors English 11A/B, and Honors English 12A/B. *These four classes are available at all MCPS high schools and are required for graduation.* However, there are other pathways for students to meet the English requirements – many schools offer alternative English courses such as English 9A/B through English 12A/B, College Prep Literature 1-4, or Reading classes. For a full list of all English classes available, see Appendix.

Electives. MCPS offers 20 English electives across its schools – *many of these courses can fulfill the MCPS Elective graduation requirement.* Several English elective courses are available at half of high schools, shown in the table below. The only school that does not offer Yearbook is Magruder. For a full listing of courses and schools, see Appendix.

English Electives

Course	Number of Schools	Average Enrollment**	Percentage of Students Enrolled English***
Yearbook 1A/B*	24	38	2%
Journalism A/B*	19	23	1%
Creative Writing A/B*	18	33	1%
Yearbook 2A/B*	18	7	3%
Techniques of Advanced Journalism	17	31	2%
Publications Editing/Business	15	31	2%
TV Production 1*	12	26	1%

*Fulfills Elective graduation requirement.

**Column lists average schoolwide enrollment among schools that offer the course

***Column lists the percentages of students enrolled in the course out of all students in schools that offer it.

In addition, there are elective English courses available at fewer schools than half of MCPS high schools – *many of these courses meet the elective requirement for graduation.* The following are the most enrolled English electives:

- Introduction to Film Study (Blake);
- Criticism in Humanities (Poolesville);
- Media in Society (six schools);
- Literature as Film (11 schools);
- Culture in Literature (three schools);
- Literacy in the Digital Age (Northwood); and
- Myth and Modern Culture (seven schools).

Blair High School is the only school to offer four English elective courses as part of its Communications Arts Program.

MCPS offers three AP English courses across the school system. These courses are available at most MCPS high schools and *meet the English requirement for graduation* (these courses can "replace" an Honors English 9-12 course).

AP English Courses

Course	Number of Schools	Schools[9]	Average Enrollment*	Percentage of Students Enrolled**
AP Language and Composition A/B	23	Not Seneca Valley and Watkins Mill	218	10%
AP Literature and Composition A/B	22	Not Kennedy, Seneca Valley and Watkins Mill	150	7%
English 10 AP Seminar A/B	11	See Appendix	96	5%

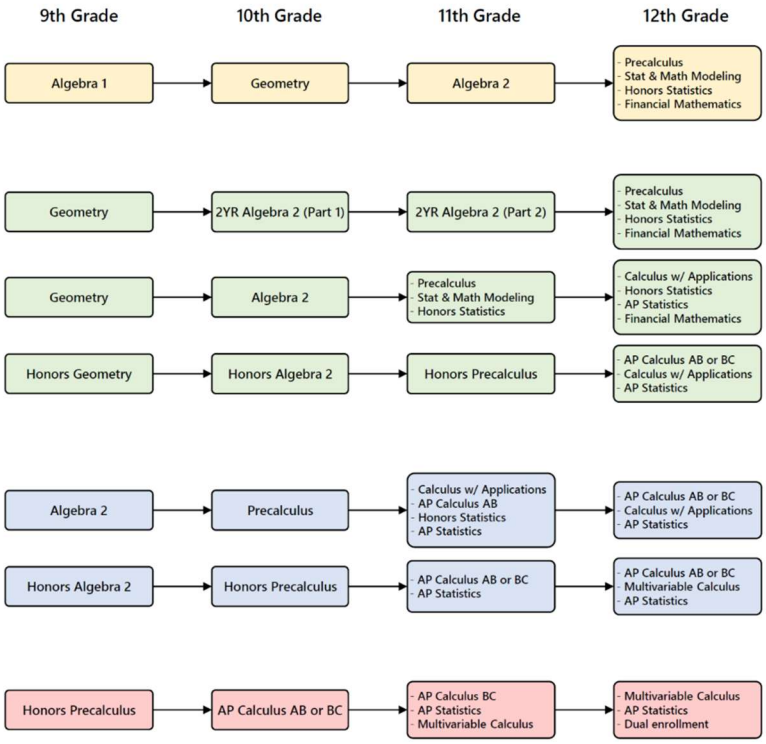
*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Additionally, MCPS' IB schools offer ten different IB specific English courses. Not every school offers every course and no one school offers all IB English courses.

Math (MAT). Math pathways for MCPS students can vary widely depending upon a student's selection and performance in math courses in middle school and high school, along with meeting any course prerequisites. The following diagram, found in Walter Johnson High School's 2024-2025 Course Catalog, outlines some of the most common math pathways for students.

[9] Seneca Valley and Watkins Mill are two of the IB schools in MCPS. These schools offer IB English Language and Literature and/or IB English Literature in place of the two AP English courses.



Most of these core math high school courses are available at a majority of MCPS high schools. *Most of these courses meet one of the math requirements for graduation – either general math, geometry or algebra requirements*. It is important to note that students may fulfill some of these math requirements in middle school. This table shows the courses available at least half of the high schools. For a full list of math courses and schools, see Appendix.

Math Courses

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Algebra 1A/B	25	201	10%
Hon Geometry A/B	25	229	11%
Hon Algebra 2A/B	25	242	12%
Financial Mathematics A/B	25	169	8%
Honors Statistics A/B	25	92	4%
Algebra 2A/B	24	240	12%
Precalculus A/B	22	141	7%
Geometry A/B	21	283	14%
Calculus with Applications A/B	21	62	3%
Statistics and Math Modeling A/B	19	70	3%
Honors Precalculus A/B	19	176	8%
2YR Algebra 2A/B	15	85	4%
2YR Algebra 2C/D	15	59	3%
Multivariate Calculus/Differential Equations A/B	12	49	2%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

In addition, MCPS offers the following math courses (all of which meet the math graduation requirement):

- There are several classes offered at high schools that are for students who need extra help including Related Math A (eight schools).
- There are eight math classes available at three or fewer schools, primarily being offered for Blair and Poolesville's Science, Math, and Computer Science Program.
- Three courses designated for magnet programs (Magnet Precalculus A-D, Magnet Functions A/B, and Magnet Analysis 1A/B) are only available at Blair, Poolesville, and Wheaton.

MCPS offers four AP math courses across its schools. Three of these classes are available at almost all high schools and fulfill the math graduation requirements.

AP Math Courses

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
AP AB Calculus A/B	25	87	4%
AP Statistics A/B	25	121	6%
AP BC Calculus A/B	23 (not Gaithersburg and Seneca Valley)[10]	73	4%
AP Precalculus A/B	11 (See Appendix)	81	4%

*Column lists average schoolwide enrollment among schools that offer the course

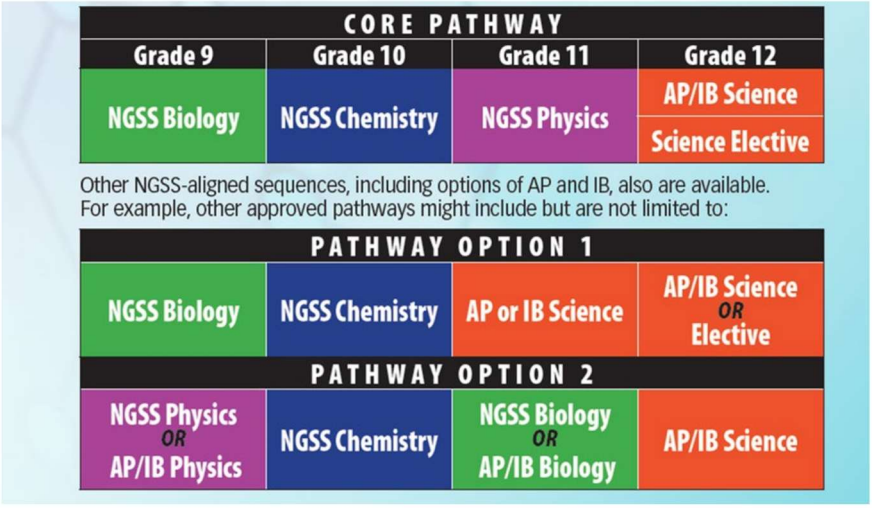
**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Five of MCPS' IB schools offer an array of IB specific math courses – a total of 15 IB math courses are offered. Kennedy offers the most IB math courses (eight classes). Some of the courses include: IB Precalculus A/B, IB Analysis Statistics Calculus 1A/B, IB Multivariate Calculus Differential Equations A/B, and IB Applications Statistics Calculus 1A/B.

B. Subject Areas Which Require Two or Three Credits

Three subject areas – science, social studies, and world languages – require students to have two or three credits to graduate.[11] This section summarizes the available courses in these subject areas that meet these requirements or meet the elective graduation requirement.

Science (SCI). For graduation, students must complete three Next Generation Science Standards (NGSS) credits, including one life science credit, one physical science credit, and one credit in Earth/space science (see Chapter 2 for more details). The following chart summarizes the most common science pathway for students (retrieved from MCPS high school science curriculum night presentation).



*According the course catalog, NGSS Biology is a prerequisite for AP/IB Biology.

[10] Seneca Valley is one of the IB schools in MCPS and offers IB Math Applications and IB Math Analysis courses in place of AP BC Calculus. Also, MCPS staff report that AP BC Calculus is now offered at Gaithersburg.

[11] OLO acknowledges that MCPS students are also required to complete two elective credits for graduation. However, since there is no subject area specific to elective course, OLO has addressed them in individual subject areas.

MCPS high schools offers 53 general science courses across the County (not including AP or special program courses discussed below). These courses represent many of the courses in the most common pathway for science classes in high school. *Some of these courses meet one of the science course graduation requirements while others meet the Elective requirement*. This table shows the science courses available in at least half of the high schools. For a full list of courses and schools, see Appendix.

General Science Courses

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Honors Biology A/BX	25	416	20%
Honors Chemistry A/B	25	352	17%
Honors Physics A/B	24	222	11%
Anatomy and Physiology A/B	21	58	3%
Chemistry A/B	20	207	10%
Forensic Science A/B	20	76	4%
Earth Systems and Sustainability A/B	19	63	3%
Astronomy with Physics A/B	19	190	10%
Biology A/B	13	189	10%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

MCPS also offer several classes at less than half of schools including Physics A/B (10 schools); Horticulture Science (7 schools); Molecular Biology and Astronomy at five schools; and Marine Biology and Organic Chemistry at four schools.

There are 34 science courses that are only available at one or two schools - most of these courses are offered at Blair and Poolesville, both of which have Science, Math and Computer Science special programs. Some of the courses available at these schools include Introduction to Genetic Analysis A/B, Thermodynamics, Wildlife Biology and Neuroscience. Some courses available at other schools include Honors Nutrition Science A/B (Wootton, Churchill) and Global Climate Change (Northwood).

There are 12 AP science courses available across MCPS high schools. The most commonly available AP courses are AP Biology A/B DP, AP Chemistry A/B DP, AP Environmental Science A/B, and AP Physics 1A/B. Blair has the most AP science courses offered (9) followed by Poolesville with seven courses. Einstein, Kennedy and Seneca Valley do not offer any AP science courses (those schools offer IB science courses).

AP Science Courses

Course	Number of Schools[12]	Average Enrollment*	Percentage of Students Enrolled**
AP Biology A/B DP	20	63	3%
AP Chemistry A/B DP	19	50	2%
AP Environmental Science A/B	18	105	5%
AP Physics 1A/B	17	87	4%
AP Physics C Mechanics A/B	8	43	2%
AP Physics C A/B	8	37	2%
AP Physics C Electricity and Magnetism A/B	4	45	2%
AP Chemistry A/B	3	51	2%
AP Physics A/B DP	3	38	2%
AP Biology A/B	2	75	3%
AP Physics C Mechanics Electricity and Magnetism A/B	1	47	1%
AP Physics 2AB	1	20	1%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

MCPS' IB schools offer an array of IB specific science courses – a total of 16 IB science courses are offered. Not every school offers every course, but courses are available at various levels in biology, physics, and chemistry. There are also IB courses in Sports Exercise and Health Science and Environmental Systems.

Social Studies (SOC). MCPS requires three social studies courses for graduation – one U.S. history credit (typically in grade 9), one National, State, and Local Government credit (typically in grade 10), and one World History credit (typically in grade 11 or 12).

MCPS high schools offers 51 social studies courses across the County (not including AP courses, discussed below). The following core courses are available at all MCPS high schools and represent the three minimum courses required for graduation. *All these courses meet one of the the social studies graduation requirements.*

General Social Studies Courses

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Honors US History A/B	25	324	16%
Honors NSL Government A/B	25	184	9%
Honors NSL Government BX	25	135	6%
Honors Modern World A/B	25	250	12%
Modern World History A/B	16	125	6%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

[12] The data provided to OLO for number of schools was for Spring 2025 enrollment. MCPS staff report the following updates: AP Biology A/B DP (21 schools); AP Environmental Science A/B (20 schools); AP Physics C A/B (nine schools); AP Physics C Electricity and Magnetism A/B (seven schools) and AP Chemistry A/B (three schools).

MCPS also offers an array of social studies elective courses. Elective social studies courses that are available in at least half of MCPS high schools are included in the following table. *All these courses can fulfill the MCPS elective graduation requirement*.

Elective Social Studies Courses

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Personal Finance	23	129	6%
Law	18	79	4%
Sociology 1	18	82	4%
Psychology 1	12	90	4%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Some additional social studies elective classes offered in schools are Women's Studies (8 schools), Latin American History (6 schools), Economics (6 schools), Hip Hop History Culture (5 schools), Positive Psychology (4 schools) and APIDA Studies (4 schools).[13] All these courses also meet the elective graduation requirement. For a full list of all social studies classes, see Appendix.

Approximately half of all social studies courses (27 courses) are available at three or fewer MCPS high schools. A full list is available in the Appendix, however (some of these courses may be associated with special programs at the school):

- Political Behavior and Psychology;
- World Military History;
- Ancient Mediterranean Civilizations;
- Hispanic/Latinx American Studies;
- Honors Sociology;
- Global Issues A/B;
- Modern Urban World A/B; and
- LGTBQ Studies.

[13] In the data provided to OLO in Spring 2025, these are the number of schools that provide these courses. MCPS staff report that currently Hispanic/Latinx American Studies is offered at five schools and Hip Hop History Culture is available at six schools.

There are 11 AP social studies courses available across MCPS high schools, which can meet either the social studies or elective graduation requirement (see table). Several courses, Government and Politics, US History, World History, and Psychology are available at almost all high schools. Churchill offers the most AP social studies courses (11), followed by BCC and WJ with ten courses, and Clarksburg, Blair, Northwest, Wootton and Whitman with nine courses. The fewest amount of AP social studies courses (4) is available at Gaithersburg, Kennedy, Northwood, and Watkins Mill.

AP Social Studies Courses

AP Course	Graduation Requirement Met	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
AP Government and Politics US NSL A/B	Social Studies	25	283	14%
AP US History A/B	Social Studies	24	127	6%
AP World History A/B	Social Studies	23	200	10%
AP Psychology A/B	Elective	23	170	8%
AP Human Geography A/B	Elective	16	78	4%
AP Microeconomics	Elective	14	104	5%
AP Macroeconomics	Elective	13	104	5%
AP African American Studies A/B	Social Studies	12	31	1%
AP Government and Politics Comp A/B	Elective	10	51	2%
AP European History A/B	Elective	8	38	2%
AP Government and Politics US NSL BX	Social Studies	4	280	13%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

MCPS' eight IB schools also offer an array of IB specific social studies courses – a total of 12 IB social studies courses are offered. Not every school offers every course, but some of the courses include: IB Global Politics, IB Social Anthropology, and IB Philosophy.

World Languages (WLG). MCPS students must complete two credits of the same world language to graduate.[14] Some noteworthy information about world language courses:

- Students can complete the two required WLG courses in middle school;
- World language courses are one of two subject areas (along with math) in which middle school students can take courses at a high school; and
- While MPCS only requires two credits which can be completed in middle school, MCPS staff report that many colleges require two language credits during high school to be accepted.

MCPS high schools offer a total of eight different languages at various schools, as shown below.[15] *Almost all of the courses identified in this section are high school credit-bearing courses and fulfill the world language requirements for graduation*.

[14] Students may complete a state-approved career and technical education (CTE) program of study instead of meeting the world language requirement.

[15] The 25-26 High School Course Catalog identifies German and an IB Russian course in addition to the languages listed. However, these courses are not necessarily offered because they are in the catalog.

Most high schools offer at least three language pathways. Whitman offers all eight language pathways, followed by WJ with six pathways and QO with five pathways. Poolesville and Sherwood offer the least number of pathways, each with two (Spanish and French).

Language Pathways

Language Pathway	Number of Schools	Schools
Spanish	25	All high schools
French	24	All high schools but Damascus
American Sign Language	16	See Appendix
Chinese	9	BCC, Clarksburg, QO, RM, Wootton, Whitman, WJ, Wheaton, Churchill
Italian	5	Damascus, Springbrook, Whitman, WJ, Wheaton
Japanese	4	Einstein, Blair, Paint Branch, Whitman
Latin	3	QO, Whitman, WJ
Arabic	3	BCC, Northwood, Whitman

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

The following table outlines the typical pathway for a world language in MCPS schools. Students can start Spanish, French or Chinese in middle school (see middle school chapter for more details).[16] The following is the language path available for most MCPS students (using Spanish as the sample language). For some languages, there are culture, literacy, and literature courses. There are also courses in world languages for speakers of that language.

Sample Language Pathway Coursework

World Language Level	Course
1	Spanish 1A/B
2	Spanish 2A/B
3	Honors Spanish 3A/B
4	Honors Spanish 4A/B
5	Spanish 5A/B
6	Spanish 6A/B
7	Spanish 7A/B

Not all languages are offered through language level 7. The table below summarizes the highest level available for each language pathway.

[16] Students can "start" a language earlier if they are enrolled in one of the County's elementary school language immersion programs.

Highest Level Coursework Available by Language

Language Pathway	Highest Level Course Offered	Additional Courses (Not AP)
Spanish	7A/B	Spanish for Spanish, Spanish Literacy, RMS Spanish 3A/B
French	7A/B	RMS French 3A/B
American Sign Language	4A/B	
Chinese	7A/B	Chinese for Chinese, RMS Chinese 3A/B
Italian	5A/B	
Japanese	5A/B	
Latin	4A/B	
Arabic	4A/B	

The next table summarizes the first three courses available in each language. Overall, OLO found Spanish is the most available and most enrolled language.

World Language Classes – Levels 1-3

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
American Sign Language			
American Sign Lang 1A/B	15	81	4%
American Sign Lang 2A/B	16	51	2%
American Sign Lang 3A/B	12	18	1%
Arabic			
Arabic 1A/B	3	19	1%
Arabic 2A/B	3	6	.3%
Arabic 3A/B	2	6	.3%
Chinese			
Chinese 1A/B	5	17	.7%
Chinese 2A/B	7	15	.6%
Hon Chinese 3A/B	9	20	.9%
French			
French 1A/B	21	35	2%
French 2A/B	24	41	2%
French 3A/B	2	31	1%
Hon French 3A/B	24	43	2%
Italian			
Italian 1A/B	4	37	2%
Italian 2A/B	5	21	1%
Hon Italian 3A/B	1	3	.2%
Japanese			
Japanese 1A/B	4	33	1%
Japanese 2A/B	4	25	1%
Hon Japanese 3A/B	4	11	.5%
Latin			
Latin 1A/B	3	25	1%
Latin 2A/B	3	18	.8%
Latin 3A/B	1	1	.1%
Hon Latin 3A/B	2	21	1%
Spanish			
Spanish 1A/B	25	110	5%
Spanish 2A/B	25	160	8%
Spanish 3A/B	1	58	3%
Hon Spanish 3A/B	25	162	8%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

There are seven AP world language courses available across MCPS. Whitman offers six of these seven AP courses – the only one it does not offer is Latin. All but one of these courses enroll less than 1% of the total students enrolled at all schools that offer the course – AP Spanish LC A/B is taken by 3% of all students in the 24 schools that offer it.

AP World Language Courses

Course[#]	Number of Schools	Schools	Average Enrollment*	Percentage of Students Enrolled**
AP Chinese LC A/B	5	RM, Wootton, Whitman, WJ, Churchill	14	.6%
AP French LC A/B	15	See Appendix	17	.7%
AP Italian LC A/B	1	Whitman	12	.6%
AP Japanese LC A/B	2	Blair, Whitman	5	.2%
AP Latin A/B	1	WJ	14	.5%
AP Spanish LC A/B	24	All but Seneca Valley	57	3%
AP Spanish Literature A/B	9	See Appendix	16	.7%

[#]LC means Language and Culture

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

MCPS' eight IB schools also offer 23 IB specific world language courses in six language pathways (not Latin and American Sign Language).

C. Subject Areas Which Require One Credit

This section summarizes the subject areas in which one credit is required for high school graduation – Computer Science, Engineering or Technology Education (TE), Fine Arts, Health, and Physical Education.

Computer Science, Engineering or Technology Education (TE). All MCPS high school students must complete a TE course to graduate – including those students who choose to complete a career and technical education pathway (see next section). OLO identified two subject areas which have courses that meet this requirement – Information Technology Careers (ITC) and Technology Education (TEC). The following summarizes course availability for courses that meet the TE requirement for all students. For a discussion of courses that meet the CTE graduation requirement, see next section. For full list of all ITC and TEC courses, see Appendix.

Information Technology (ITC) and Technology Education (TEC) Courses that Meet TE Graduation Requirement[17]

Course Name	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
ITC Courses			
AP Computer Science Principles TE A	25	131	6%
Foundations Computer Science TE A	22	155	8%
AP Computer Science JAVA A/B TE	7	47	2%
IB Computer Science 1A/B TE	2	13	1%
TEC Courses			
Foundations Of Technology A/B	17	222	11%
Introduction to Engineering Design A/B	13	152	8%
Making for Engineers A/B	8	125	6%
Foundations of Engineering and Technology A/B	6	205	9%
Advanced Design Applications A/B	3	28	1%
Advanced Technology Applications A/B	1	34	1%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Art (ART). MCPS offers a wide variety of art classes throughout its high schools. The following provides an overview of art courses available in various mediums. *All courses listed in this section can fulfill the Fine Arts graduation requirement*. For a full list of classes available at each high school, see Appendix.

This summary does not include the following:

- Einstein offers four courses, including two AP courses, specific to its Visual and Performing Arts Academy and Visual Arts Center;
- IB courses in film, dance, theater, music and art design available to students in IB programs throughout the County; and
- Enrollments in dual enrollment classes in a variety of areas: CE Advanced Dance (one school); CE Advanced Theater (three schools); CE Advanced Integrated Arts (eight schools); and CE Advanced Visual Arts (14 schools).[18]

The following table summarizes the number of art courses offered by each high school, followed by more detailed explanations of each art area. Overall, the data show that Blair has the most art courses (53) offered while Poolesville has the least (20). The average number of courses offered across all schools is 35.

[17] Information Technology and Cybersecurity (ITC) are computer science courses and Technology Education (TEC) are for technical education courses.

[18] This may represent students who are enrolled in college courses from various high schools not those offered at the high school.

Summary of Art Courses by Area

High School	Dance	Visual Art			Fashion	General Music	Piano	Guitar	Chorus	Band/Orchestra	Theater	Other	Total
		Studio Art	Photography	Ceramics									
Einstein*	5	10	3	4	0	1	2	3	3	6	3	1	**41**
BCC*	1	7	3	3	0	1	2	2	5	7	6	1	**38**
Clarksburg	0	10	3	3	1	1	2	0	4	5	4	0	**33**
Magruder	0	9	5	4	0	1	0	2	3	4	0	1	**29**
Damascus	0	7	2	4	0	1	0	3	3	5	2	3	**30**
Gaithersburg	0	6	4	4	3	0	1	1	3	5	4	1	**32**
Blake	6	9	5	4	5	2	3	3	3	8	4	1	**53**
Kennedy*	2	7	2	3	2	0	2	0	2	4	2	0	**26**
Blair	1	13	5	6	1	2	3	4	5	6	6	2	**54**
Northwest	0	8	4	4	0	2	3	3	4	5	3	1	**37**
Northwood	6	8	3	3	1	2	2	2	3	6	6	1	**43**
Paint Branch	0	3	3	4	0	0	3	1	4	2	5	0	**25**
Poolesville	0	4	3	3	0	1	0	2	2	4	0	1	**20**
Quince Orchard	0	10	3	4	0	1	4	4	3	6	5	2	**42**
RM*	0	7	4	4	0	0	2	4	4	6	3	2	**36**
Rockville*	1	8	2	3	0	0	2	2	2	5	0	0	**25**
Seneca Valley*	0	6	4	6	0	1	4	4	3	5	5	1	**39**
Sherwood	0	9	3	3	0	2	3	3	2	4	3	0	**32**
Springbrook*	1	4	1	3	0	2	2	2	2	6	2	1	**26**
Wootton	0	10	2	3	2	1	0	2	3	5	4	1	**33**
Whitman	0	10	4	3	0	2	2	2	4	6	0	3	**36**
Walter Johnson	0	10	5	5	0	2	3	4	4	6	5	1	**45**
Watkins Mill*	0	5	3	3	0	1	2	1	0	4	3	0	**22**
Wheaton	3	9	4	3	0	1	2	2	3	2	3	1	**33**
Churchill	0	11	4	4	5	1	2	2	3	7	4	1	**44**

*Also have IB art courses not included in table

Visual Art. There are three primary pathways for visual arts classes in MCPS high schools – studio art classes, ceramics and digital art/photography.

Studio Art. Most high schools have at least the two lower levels of these courses.

Studio Art Courses

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Studio Art			
2D Studio Art 1A/B	24	106	5%
Advanced 2D Studio Art 2A/B	24	24	1%
2D Studio Art 3A/B	19	8	.4%
2D Studio Art 4A/B	9	3	.2%
Digital Art			
Digital Art 1A/B	21	91	4%
Advanced Digital Art 2A	17	17	.8%
Digital Art 3A	11	5	.3%
Advanced Digital Art 4A/B	1	1	.3%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

In addition, MCPS offers the following visual art courses at three or less schools. Often, these courses are associated with a special program within the school:

- Advanced Painting 2A/B is available at Blair, RM, and Springbrook;
- Advanced Animation 2A/B is available at Blair, Northwood and Seneca Valley;
- Blake and Clarksburg offer Graphic Art and Design 1A/B and Advanced Graphic Art and Design 2A/B;
- Wheaton has enrollment in Advanced Drawing 2 and Advanced Contemporary Mixed Media 2; and
- Blair is the only school to offer Advanced Printmaking 2A/B.

MPCS also offers five AP visual arts courses – three of these courses are available at more than half of MCPS high schools. Damascus, Seneca Valley and Watkins Mill are the only schools that do not offer any AP visual arts courses. QO, Wootton and Churchill offer all five of these AP visual arts courses. MCPS also offers IB Art Design at all eight IB high schools.

AP Studio Art Courses

Course	Number of Schools	Schools	Average Enrollment*	Percentage of Students Enrolled**
AP 2D Art & Design A/B	20	Not available at Clarksburg, Damascus, Poolesville, Seneca Valley, and Watkins Mill	10	.5%
AP Drawing A/B	15	See Appendix for Full List	10	.5%
AP 3D Art & Design A/B	15	See Appendix for Full List	7	.3%
AP Drawing A/B DP	7	Clarksburg, Northwest, QO, Wootton, Whitman, WJ and Churchill	7	.3%
AP 2D Art & Design DP	5	QO, RM, Wootton, WJ and Churchill	12	.5%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Photography. MCPS offers a pathway of photography courses (Photography 1A/B through Photography 4 A/B) along with several additional courses including 2D Photography A/B and Darkroom Photography A/B. There is also a specialized photography course at Blair (CAP Photography).

- All 25 high schools offer Photography 1A/B, with 23 also offering Advanced Photography 2A/B (Springbrook and Wootton do not).
- Fourteen schools offer the only AP photography course (AP Photography A/B).

Photography Courses

Course	Number of Schools	Schools	Average Enrollment*	Percentage of Students Enrolled**
Photography 1A/B	25	See Appendix for full lists	135	6%
Advanced Photography 2A/B	23		16	.8%
Advanced Photography 3A/B	15		6	.3%
AP 2D Photography A/B[#]	14		8	.3%
Advanced Photography 4A/B	3	Magruder, RM, Seneca Valley	3	.1%
Darkroom Photography A/B	2	Gaithersburg, Blake	63	3%

[#]Walter Johnson offers this course but also offers AP 2D Photography A/B DP

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Ceramics. MCPS offers a pathway of ceramics courses (Ceramic Sculpture 1A/B through Ceramic Sculpture 4 A/B) along with two Functional Fine Art and Craft courses. Most MCPS schools offer at least Ceramic Sculpture 1A/B through 3A/B.

Ceramics Courses

Course	Number of Schools	Schools	Average Enrollment*	Percentage of Students Enrolled**
Ceramic Sculpture 1A/B	25	All Schools	207	10%
Advanced Ceramic Sculpture 2A/B	25	All Schools	39	2%
Advanced Ceramic Sculpture 3A/B	24	All but Kennedy	10	.5%
Advanced Ceramic Sculpture 4A/B	9	Magruder, Damascus, Blake, Blair, QO, RM, Seneca Valley, 107WJ, Churchill	3	.1%
Functional Fine Art & Craft 1B	8	Einstein, Gaithersburg, Kennedy, Blair, Northwest, Paint Branch, Seneca Valley, WJ	107	4%
Advanced Functional Craft 2A/B	2	Blair, Seneca Valley	2	.1%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Dance.[19] Overall, nine MCPS high schools offer at least one dance class (not including IB Dance classes). The most common dance class, Dance Fine Art A/B, is offered in eight MCPS high schools – all other dance classes are only available at no more than five schools.

- Einstein (5 courses), Blake (6 courses) and Northwood (6 courses) offer the most dance classes – no other school offers more than three courses. All three of these schools have dance-related academies.
- Specialty dance courses are available at a small number of schools – Modern Dance (Northwood, Springbrook), Hip Hop Dance (Blake, Northwood) and Choreography (Einstein, Blake). BCC and Kennedy offer IB Dance.

Dance Courses

Course	Number of Schools	Schools	Average Enrollment*	Percentage of Students Enrolled**
Dance Fine Art A/B	8	Einstein, BCC, Blair, Blake, Kennedy, Northwood, Rockville, Wheaton	27	1%
Dance 2A/B	5	Einstein, Blake, Kennedy, Northwood, Wheaton	20	1%
Dance 3A/B	3	Einstein, Blake, Northwood	20	1%
Modern Dance A/B	2	Northwood, Springbrook	19	1%
Hip Hop Dance A/B	2	Blake, Northwood	56	3%
Dance Company A/B	4	Einstein, Blake, Northwood, Wheaton	16	.8%
Choreography 1A/B	2	Einstein, Blake	13	.6%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

[19] The courses listed here are Visual and Performing Art Course (FA graduation requirement); Physical Education courses in dance are also available (PE graduation requirement), which follow different standards.

Fashion. MCPS offers five fashion-related courses across eight high schools.[20] Two schools (Blake and Churchill) offer all five fashion courses and Fashion Illustration 1A/B is the most common course, available at seven schools.

Fashion Courses

Course	Number of Schools	Schools	Average Enrollment*	Percentage of Students Enrolled**
Fashion Illustration 1A/B	7	Clarksburg, Blake, Kennedy, Blair, Northwood, Wootton, Churchill	47	2%
Advanced Fashion Illustration 2A	4	Blake, Kennedy, Wootton, Churchill	4	.2%
Fashion Production 1A/B	3	Gaithersburg, Blake, Churchill	88	4%
Advanced Fashion Production 2A/B	3	Gaithersburg, Blake, Churchill	20	1%
Advanced Fashion Production 3A/B	3	Gaithersburg, Blake, Churchill	7	.3%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

General Music. MCPS offers several general music classes across all schools, including one AP course (AP Music Theory A/B) at 14 high schools. No school offers all these classes; however, several schools offer two courses:

- Blake and Sherwood offer both Music Technology A/B and Music Perspectives A/B;
- Blair, Northwest, Springbrook, Whitman, and WJ offer AP Music Theory A/B and Music Technology A/B; and
- Northwood offers AP Music Theory A/B and Music Theory Composition 1A/B.

All other schools only offer one of these general music courses. In addition, IB Advanced Music is available at three of the IB schools.

General Music Courses[21]

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
AP Music Theory A/B	14	18	.9%
Music Technology A/B	9	31	1%
Music Perspectives A/B	4	6	.3%
Music Theory Composition 1A/B	2	4	.2%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

[20] According to the data provided to OLO on Spring 2025 enrollment, there were five fashion related courses offered. MCPS staff report that Blake High School now offers Fashion Production 4 in addition to the listed courses.

[21] According to data provided to OLO on Spring 2025 enrollment, these courses were offered. MCPS staff report that twelve schools are currently offering AP Music Theory and no schools are currently offering Music Theory Composition.

Piano. MCPS offers Piano 1A/B through Piano 4A/B in its schools. Most schools have both Piano 1A/B and Piano 2A/B.

Piano Courses

Course	Number of Schools	Schools	Average Enrollment*	Percentage of Students Enrolled**
Piano 1A/B	21	Not available at Magruder, Damascus, Poolesville, Wootton	49	2%
Piano 2A/B	20	Not available at Magruder, Damascus, Gaithersburg, Poolesville, Wootton	9	.4%
Piano 3A/B	6	Blake, Northwest, Paint Branch, QO, Seneca Valley, WJ	4	.2%
Piano 4A/B	4	Blair, QO, Seneca Valley, Sherwood	2	.06%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Guitar. MCPS offers Guitar 1A/B through Guitar 4A/B in its schools. Most MCPS schools have Guitar 1A/B and Guitar 2A/B.

Guitar Courses

Course	Number of Schools	Schools	Average Enrollment*	Percentage of Students Enrolled**
Guitar 1A/B	23	Not available at Clarksburg, Kennedy	42	2%
Guitar 2A/B	20	Not available at Clarksburg, Gaithersburg, Kennedy, Paint Branch, Watkins Mill	11	.5%
Guitar 3A/B	11	Einstein, Damascus, Blake, Blair, Northwest, QO, RM, Seneca Valley, Sherwood, Wootton, WJ	4	.2%
Guitar 4A/B	5	Blair, QO, RM, Seneca Valley, WJ	2	.1%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Chorus. MCPS offers chorus courses in most of its high schools. All but QO, Sherwood[22], Wootton and Watkins Mill offer Chorus 1A/B. In three of these schools, there are higher level chorus courses available – Watkins Mill is the only school that does not offer any chorus courses. Only two schools (BCC and Blair) offer all chorus courses.

[22] According to data provided to OLO on Spring 2025 enrollment, Sherwood did not offer Chorus 1. However, MCPS staff report that currently Sherwood is providing the course.

Chorus Courses

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Chorus High School 1A/B	21	28	1%
Chorus High School 2A/B	16	15	.7%
Chorus High School 3A/B	16	18	.8%
Chamber Singers A/B	18	26	1%
Show Choir A/B	7	22	1%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Band/Orchestra. All MCPS high schools have at least one orchestra and one band course, with Concert Band and Orchestra available at most high schools:

- Concert Band A/B is not available at Blair, Rockville, Springbrook and Wootton (all these schools have other band courses);
- Concert Orchestra A/B is not available Northwood, Rockville, Sherwood, and Wootton (all these schools have other orchestra courses);
- Two schools have limited band/orchestra courses - Paint Branch[23] and Wheaton only have two courses (Concert Band A/B and Concert Orchestra A/B); and
- Einstein, Northwood and Springbrook are the only schools with Jazz Lab Band.[24]

Band and Orchestra Courses

Courses	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Concert Band A/B	21	28	1%
Symphonic Band A/B	21	34	2%
Concert Orchestra A/B	20	21	1%
Symphonic Orchestra A/B[25]	20	30	1%
Jazz Ensemble A/B	18	19	.9%
Wind Ensemble A/B	10	39	2%
Philharmonic Orchestra A/B	8	40	2%
Beginning Band High School A/B[26]	6	18	1%
Beginning Orchestra High School A/B	3	5	.3%
Jazz Lab Band A/B	3	15	.8%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

MCPS also offers a course for Color Guard, considered an instrumental course, at two high schools – Blake and Northwood.[27]

[23] According to data provided to OLO on Spring 2025 enrollment, these were the courses available at Paint Branch. MCPS staff report that Paint Branch now offers Jazz Ensemble.

[24] MCPS staff report that Northwood no longer offers Jazz Lab Band.

[25] MCPS staff report Symphonic Orchestra is now offered at 21 high schools.

[26] MCPS staff report Beginning Band High School is now offered at seven high schools.

[27] MCPS staff report that Color Guard is no longer available at Northwood.

Theater. MCPS offers eight theater classes throughout its high schools. There are four schools – Magruder, Poolesville, Rockville, and Whitman – that do not have any theater classes. Theater 1A/B and Theater 2A/B are available at almost all schools that offer theater classes (WJ does not have Theater 2A/B). Approximately half of the schools that offer theater offer Advanced Acting and Stage Design. Four of the eight IB schools offer IB Theater.

Theater Courses

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Theatre High School 1A/B	21	23	1%
Theatre High School 2A/B	20	7	.3%
Advanced Acting A/B	12	5	.2%
Stage Design A/B	11	7	.3%
Play Directing A/B	9	2	.1%
Musical Theatre A/B	5	10	.5%
Introduction to Dramatics	1	80	2%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Other Art. There are several other art classes, including one AP course, available in County high schools. These courses include Art History A/B (available only at Damascus), Art and Social Justice (available only at Whitman), AP Art History A/B (available at nine high schools), and Foundation of Art and Culture A/B (available at 13 high schools).

Health and Physical Education (HPE). All students must have one health and one physical education credit to graduate**.** All high schools offer Honors Health Education A/B, the course that essentially all students take to fulfill the health education requirement. Other HPE health courses include Human Behavior (available at 15 schools and meets elective graduation requirement) and Advanced Health (available at 12 schools and meets HPE requirement).

MCPS students must also complete one physical education course during high school. Some of the more available courses include the following – available at least half of MCPS high schools.

Physical Education Courses

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Specialty PE Basketball	24	235	11%
Specialty PE Soccer	24	322	15%
Specialty PE Weight Strength Train	24	399	19%
Specialty PE Yoga Stretching	22	295	14%
Found Fitness Sport PE	16	120	5%
CPE# Net Sports	16	201	9%
Specialty PE Volleyball	13	279	135%

#Concentrated Physical Education

**Column lists average schoolwide enrollment among schools that offer the course

***Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Some courses available at fewer schools include Flag Football, Team Sports, Dance, Individual Dual Sports, and Lacrosse. There is also a Leadership Opportunity PE course available at ten schools.

D. Career and Technical Education (CTE) Pathways

There are two pathways for students to complete graduation requirements – students can either complete two world language courses and two electives OR they can complete a CTE pathway. This section summarizes the courses available to complete the CTE pathway for students who choose it - this section does not summarize the course requirements for each pathway. This summary also does not include internship opportunities within these pathways.

Every high school offers CTE pathways for students; however, the programs available vary from school to school. For a full summary of the specific programs and courses at each school, please see Appendix. The remainder of this section summarizes the courses available in each CTE subject area.

Environment, Agriculture, and Natural Resources (EANR). EANR courses are available in three schools[28] - Damascus, Northwood and Sherwood (see footnote).[29] *All these EANR courses fulfill the CTE graduation requirement*.

- Damascus Horticultural program has three required courses including plant production, horticulture, landscape design, along with an environmental internship and guided research;
- Northwood Agricultural program offers four required courses including Agriculture, Food, and Natural Resources and Natural Resources and Ecology; and
- Northwood additionally had a course in Environmental Science Issues.

Arts, Media and Communications (AMC). MCPS offers Arts, Media and Communications-related courses to a limited number of high schools in the County – there are seven AMC courses available outside of special programs or dual enrollment**.** These programs include Audiovisual Communications and Broadcast Technologies and Graphics Communication and Interactive Media Productions. Each program has four required courses. *All AMC courses listed meet the graduation requirement for CTE*.

- Video Production is available at the greatest number of schools (8), followed by Introduction to Interactive Media at seven schools;
- Blake (seven courses) and QO (six courses plus an internship) high schools offer the greatest number of AMC courses – each offer two programs of study; and
- Blair offers four courses specializing in writing news and production as part of its Communications Arts Program.

[28] Wheaton HS offers one course – CE Advanced Landscape, a dual enrollment course.
[29] Based on the Spring 2025 information OLO was provided, Sherwood did provide agriculture courses. However, MCPS staff report these courses are no longer available at Sherwood.

Arts, Media and Communications Courses[30]

Program of Study Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Video Production	8	15	.8%
Intro Interactive Media	7	35	2%
Electronic Video Field Production	6	6	.3%
Research Art Media	4	6	.3%
Intern Art Media	3	10	.5%
Production and Performance A/B	3	17	.7%
Media Station Management Production	2	7	.3%
Game Development	2	41	2%
Advanced Game Development	2	14	.7%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it.

Healthcare Professions and Biosciences (BHP). Healthcare Professions Programs of Study BHP courses are designed to prepare students for careers in allied healthcare. MCPS currently offers five different CTE Allied Healthcare Programs of Study. These programs are: Certified Nursing Assistant (CNA), Certified Clinical Medical Assistant (CCMA), Pharmacy Technician, Physical Rehabilitation and Biomed Health Professions. All allied Healthcare Profession Programs of Study (with the exception of CNA) have 4 required courses. The following summarizes the number of Healthcare Profession programs courses available at various schools in the County. *All Healthcare Professions Programs of Study BHP courses fulfill the graduation requirement for CTE*.

Number of High Schools with Healthcare Professions Programs of Study

School	Allied Healthcare Professions Programs of Study	Number of BHP Courses
Clarksburg	Physical Rehabilitation and Pharmacy Technician	5
Magruder	Pharmacy Technician	4
Kennedy	Certified Nursing Assistant (CNA), Certified Clinical Medical Assistant (CCMA) Physical Rehabilitation	6
Paint Branch	Certified Nursing Assistant (CNA), Certified Clinical Medical Assistant (CCMA)	5
Seneca Valley	Pharmacy Technician and Certified Clinical Medical Assistant (CCMA)	5
Sherwood	Certified Nursing Assistant	3
Watkins Mill	Certified Medical Assistant	4

The Biosciences Programs of Study are designed to prepare students for careers in healthcare and Biotechnology fields. MCPS currently offers two different Biosciences CTE Programs of Study. These programs are Project Lead the Way (PLTW), and Biomedical Sciences/Biotechnology. All Biosciences Programs of Study have at least 3 required courses. The following summarizes the number of Biosciences programs available at various schools in the County. All Biosciences Programs of Study fulfill the graduation requirement for CTE.

[30] Does not include courses available at Edison High School

Number of BHP Courses by High Schools with Healthcare Professions Programs of Study

School	Biosciences Programs of Study	Total Number of Courses
Gaithersburg	PLTW Biomedical Sciences	4
Rockville	PLTW Biomedical Sciences	4
Wheaton	PLTW Biomedical Sciences	4
Northwest	Biotechnology	3

The most popular BHP courses (by average enrollment) are as follows.

Allied Health Professions and Biosciences Courses

Program of Study Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Foundations Medical Health Science A/B	7	103	5%
Principles Biomedical Science A/B	3	84	4%
Human Body Systems A/B	3	81	4%
Structures and Functions of the Human Body A/B	7	73	4%
Medical Interventions A/B	3	61	3%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Business, Management, and Finance (BMF). Business and financial management courses are available in several MCPS schools. There are four different Programs of Study in the CTE Business Management and Finance Cluster. These Programs of Study are NAF Academy of Finance, Accounting and Finance, Business Management and Marketing. Each Program of Study has a minimum of three required courses. Overall, business and financial management courses in MCPS are mostly available at schools with special academies or programs in business management. *All Programs of Study courses in BMF fulfill the CTE graduation requirement*.

Business Management and Finance Courses

Program of Study Course	Number of Schools	Schools	Average Enrollment*	Percentage of Students Enrolled**
Accounting A/B	8	Magruder, Gaithersburg, Blake, Kennedy, Blair, Northwest, Northwood, Sherwood	44	2%
Entrepreneur 1A/B	8	Gaithersburg, Blake, Kennedy, Blair, Northwood, Sherwood, Springbrook, Churchill	96	5%
Marketing A/B	6	Gaithersburg, Blake, Blair, Northwest, Northwood, Wootton	50	2%
Advanced Business Management A/B	4	Gaithersburg, Blake, Kennedy, Sherwood	13	.7%
Financial Planning	4	Einstein, Magruder, Northwest, Paint Branch	48	2%
Banking and Credit	4	Einstein, Magruder, Northwest, Paint Branch	74	4%
International Finance	4	Einstein, Magruder, Northwest, Paint Branch	20	1%
Advanced Marketing A/B	2	Blair, Northwood	3	.1%
Honors Advanced Accounting A/B	1	Blair	9	.3%
International Business[31]	1	Whitman	112	5%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Two schools – Magruder and Gaithersburg - offer AP courses in business and financial management. These courses are AP Microeconomics BMF and AP Macroeconomics BMF. [32]Additionally, four schools with the Academy of Finance (NAF) – Einstein, Magruder, Northwest and Paint Branch – are the only schools to offer up to four NAF business management courses including Principals of Finance, Entrepreneurship, Applied Finance, Principals of Accounting, along with a NAF Internship course. Three IB high schools – Kennedy, Seneca Valley, and WJ – offer two IB specific business management courses. Kennedy also offers a business management capstone course.

Consumer Services, Hospitality, and Tourism (CHT). MCPS offers CHT courses across two career pathways – hospitality and culinary arts. *All these courses meet the CTE requirement for graduation*.

There are two hospitality courses available at seven schools – shown in the table below. Walter Johnson offers an additional course – Marketing Hospitality A/B with an enrollment of 29 students.

[31] OLO was provided with course information for Spring 2025 (shown in the table) MCPS staff report the following changes reflecting current courses available: Paint Branch now offers Accounting A/B; Northwest and Wootton no longer offer Marketing A/B; Gaithersburg and Blake now offer Advanced Marketing A/B; Gaithersburg, Magruder, and Northwest now offer Honors Advanced Accounting A/B; and Whitman no longer offers International Business.

[32] BMF AP economics courses are different from the AP economics courses available through Social Studies.

Consumer Services, Hospitality and Tourism Courses – Hospitality

Program of Study Course	Average Enrollment*	Percentage of Students Enrolled**	Schools
Principles Hospitality Tourism A	88	4%	Einstein, Magruder, Rockville, Seneca Valley, Springbrook, WJ, Watkins Mill
Hospitality Tourism Management A	29	1%	

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Culinary courses (which are also available at Edison) are available at the following schools:

- Sherwood offers two courses – International Cultures Cuisines A/B and Culinary Essentials A/B with enrollments of 38 and 28 respectively; and
- Paint Branch offers five courses in restaurant management (four courses with average enrollment of 18 students) and food trends (one course with 179 students enrolled).

Construction (CON). Programs of Study in the Construction Cluster are offered either at Seneca Valley High School or Thomas Edison. The programs of study available in the construction cluster are: Construction and Development, Carpentry, Electricity, Principles of Architecture and CAD Technology, HVAC, Masonry, Construction, Design and Management and Plumbing. Each program of study has three or more required courses**.** OLO identified 11 courses available primarily at one high school (in addition to similar courses available at Thomas Edison). All the following courses are available at Seneca Valley, with one course (Construction Technology A/B) also available at Damascus. *All these Programs of Study courses meet the CTE graduation requirement*.

Construction Courses

Program of Study Course	Average Enrollment*	Percentage of Students Enrolled**
HVAC 1A/B	18	.8%
Carpentry 1A/B	10	.4%
Construction Technology A/B#	37	2%
Carpentry 2A/B DP	3	.1%
Electricity Construction 1A/B	22	1%
Electricity Const 2A/B DP	8	.3%
HVAC 2A/B DP	7	.3%
Introduction to Construction Design Management A/B	74	3%
Principles of Construction Design A/B	39	2%
Advanced Construction Management A/B	19	1%
Advanced Design and 3D Modeling A/B	33	1%

#Includes enrollment at Seneca Valley and Damascus; all other data is for Seneca Valley

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Education (EDU). MCPS offers EDU Programs of Study courses across two career pathways – child development/Teacher Academy of Maryland and cosmetology. *All these Programs of Study courses meet the CTE requirement for graduation*.

Three child development classes (listed below) are available in at least half of MCPS high schools. There are additional child development courses at Einstein, Blake, Kennedy, and Springbrook high schools. For a full list, see Appendix.

Education Courses – Child Development

Program of Study Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Child Growth and Development A/B	18	82	4%
Learning Environment Preschoolers A/B	18	29	1%
Child Development Association Portfolio A/B	12	15	.7%

Cosmetology is also part of the Consumer Services, Hospitality and Tourism Cluster but courses are designated Education. This Program of Study is offered both at Edison and Gaithersburg. There are currently three courses required (Cosmetology 1A/B, 2A/B, and 3A/B) with an average enrollment of 23 students.

Engineering (ENR). There are several engineering courses available for MCPS high school students. For a full list of engineering courses and the schools that offer them, please see Appendix. *All ENR Program of Study meet the graduation requirement for CTE*.

Engineering Courses

Program of Study Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Engineering Design Development	13	30	2%
Digital Electronics	12	26	1%
Principals of Engineering	12	72	3%
Civil Engineering	9	34	2%
Aerospace Engineering	6	42	2%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

In addition, Blair and Poolesville are the only schools to offer Robotics while QO is the only high school to offer Environmental Sustainability (an ENR course). All these schools are also the only ones which offer engineering research-based courses (i.e. Guided Research, etc.).

Information Technology Careers (ITC). MCPS offers several general information technology education courses throughout its schools. Some are stand-alone electives that can meet the TE requirement (discussed earlier), while others are part of a sequence of courses that meets the requirements for a CTE Program of Study or elective requirements. Currently there are six Information Technology Programs of Study that *meet the elective; however, several meet the several that meet the elective or TE requirement are noted*. The following courses are available at more than half of the high schools.

Information Technology Courses[33]

Program of Study Course	Graduation Requirement Met	Number of Schools (See Appendix for List)	Average Enrollment*	Percentage of Students Enrolled**
IT Networking Academy (CISCO) (formerly Computer Programming 1A/B)	CTE	18	54	2%
Computer Science/Code.org (formerly Programming 3 Advanced Topics A/B)	Elective	17	21	1%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Website Development A/B is available at six schools (CTE requirement). In addition, MCPS offers 28 ITC courses at three or less schools. Often, these courses are associated with a special program within the school. Some examples include:

- Damascus (Academy of Information Technology) is one of three schools to offer IT Essentials CISCO A/B and Introduction to Networks CISCO A/B and the only school to offer CyberOps Associate A/B and Linux Essentials CISCO A/B (all meet the CTE requirement).
- Blair and Poolesville (Science, Math, Computer Science Program) are the only two schools to offer Foundations of Computer Science A/B (different from Computer Science TE class listed above and meets CTE requirement), Algorithm Data A/B, Introduction to Networking, and Analysis Algorithms (elective requirement).
- Seneca Valley (Cybersecurity/IT Program) is the only school to offer Cybersecurity Fundamentals A/B, Linux Essentials A/B, Network Operations 1A/B, Network Operations 2A/B, and a Cybersecurity Capstone (all meet CTE graduation requirement).[34]

MPCS also offers five AP technology courses, listed below. All MCPS high schools offer AP Computer Science Principles TE A/B, with a majority (17 schools) also offering AP Computer Science JAVA A/B. No high school offers all these AP courses, but Clarksburg offers the largest number, with four AP courses available to students.

[33] This data was provided to OLO for Spring 2025. MCPS staff report there are the following courses also now available (all meet CTE requirement): Mobile Application and Software Development, NAF Academy of Information Technology, Network Operations, and P-Tech Pathways in Network.

[34] This data was provided to OLO for Spring 2025. MCPS staff report that Network Operations 1 & 2 are currently offered at Thomas Edison HS and Clarksburg HS; Cybersecurity Capstone is offered at Thomas Edison HS; and Cybersecurity Fundamentals is also offered for Wheaton/Edison students in the W/E partnership.

AP Information Technology Courses

Program of Study Course	Graduation Requirement Met	Number of Schools	Schools	Average Enrollment*	Percentage of Students Enrolled**
AP Computer Science Principles TE A/B	TE	25	All Schools	131	6%
AP Computer Science JAVA A/B	CTE	17	See Appendix for List	40	2%
AP Computer Science JAVA A/B TE[35]	TE	7	Einstein, Clarksburg, Blair, Poolesville, RM, Sherwood, Churchill	47	2%
AP Comp Science Principles PLTW A/B	CTE	4	Clarksburg, Poolesville, Rockville, Watkins Mill	13	.7%
AP Computer Science Principles in Swift A/B	CTE	2	WJ, Watkins Mill	17	.7%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Law, Government, Public Safety and Administration. Public Safety (PGS). There are four CTE programs of study under this theme including Fire Science and EMT, Justice, Law and Society, Law Enforcement and Leadership and JROTC. Each of these Programs of Study has a minimum of three required courses.

The Fire Science & Rescue Cadet Program takes place at the Montgomery County Public Safety Training Academy and is open to all students. Students attend home schools when not at the Academy. As of spring 2025, students from ten high schools participated in the program. The Law Enforcement and Leadership Program of Study is offered at Edison and Seneca Valley. There are four courses required.

MCPS also offers the Justice, Law and Society Program of Study in four of its schools. *All these Programs of Study meet the CTE graduation requirement*.

Justice Law and Society Courses

Program of Study Course	Number of Schools	Schools	Average Enrollment*	Percentage of Students Enrolled**
Introduction to Justice, Law and Society	4	Blair, Northwood, QO, Springbrook	72	3%
Law and Administration of Justice	4	Blair, Northwood, QO, Springbrook	18	.8%
Contemporary Issues in Justice, Law, and Society	3	Northwood, QO, Springbrook	13	.7%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

In addition to the courses listed in the table above, Northwood is the only school to offer the course Research Law and Government (also meets CTE graduation requirement).

[35] TE means the course meets the Technical Education graduation requirement.

Transportation (TRN). There are three CTE Programs of Study in the Transportation cluster. Aviation (available at Magruder only), Automotive Collision/Repair (offered at 2 schools including Edison), and Automotive Technology (offered at 3 schools in addition to Edison). Each Program of Study has a minimum of two required courses. There are five courses available in automotive available across three schools. *All these courses meet the CTE requirement*.

Transportation Automotive Courses

Program of Study Course	Average Enrollment*	Percentage of Students Enrolled**	Schools
Automotive Technology 1A/B DP	41	2%	Damascus, Gaithersburg, Seneca Valley
Automotive Technology 2A/B DP	23	1%	Damascus, Gaithersburg, Seneca Valley
Automotive Technology 3A/B DP	4	.2%	Damascus, Seneca Valley
Auto Collision Repair 1A/B DP	44	2%	Gaithersburg
Auto Collision Repair 2A/B DP	15	.6%	Gaithersburg

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

All transportation courses in aviation/aerospace are only available at Magruder. OLO identified 12 courses offered at the high school ranging in enrollment from ten (Unmanned Aircraft Systems and Unmanned Aircraft Systems Flight) to 50 enrolled in Principles in Aviation and Aerospace. For full listing of all aviation/aerospace courses available, see Appendix.

E. Summary of AP Courses

This section summarizes the number of AP courses available across MCPS high schools. Overall, OLO identified 59 AP courses with enrollments in Spring 2025. Science, social studies, and art had the greatest number of AP courses. *OLO acknowledges that the number of IB courses at any given school might have an impact on the number of AP courses also available at that school. Therefore, the following tables on AP courses available also include IB courses for context.*

Subject Area	Number of AP Courses Available	Number of IB Courses
Art	12	9
Business, Management and Finance	2	2
English	3	10
Technology	5	5*
Math	4	15
Non-Specific Subject	2	NA
Science[36]	13	17
Social Studies[37]	11	14
World Languages	7	23
Total	**59**	**95**

*Includes ITC and ITR courses

The number of AP courses by high school varied widely. The average number of AP courses offered at all high schools was 26, with WJ having the most available (39) and Seneca Valley the least (10). OLO found the high schools with the least number of AP courses typically had an IB program in the school. Appendix G summarizes all AP courses in individual schools.

[36] The data provided to OLO for Spring 2025 identified the listed number of AP courses. MCPS staff report that there are currently 12 science courses and 14 IB courses.

[37] The data provided to OLO for Spring 2025 identified the listed number of AP courses. MCPS staff report that there are currently 10 social studies AP courses.

Number of AP Courses by School Spring 2025, Listed Greatest to Least

School Without IB Program	Number of AP Courses Offered	Schools With IB Program[38]	Number of AP Courses Offered	Number of IB Courses Offered
Walter Johnson	39	Bethesda-Chevy Chase	27	38
Winston Churchill	37	Richard Montgomery	24	45
Thomas S. Wootton	35	Springbrook	23	32
Walt Whitman	35	Rockville	21	29
Montgomery Blair	34	Albert Einstein	19	37
Quince Orchard	32	John F. Kennedy	12	56
Clarksburg	31	Watkins Mill	11	50
Northwest	31	Seneca Valley	10	44
Poolesville	31			
Col. Zadok Magruder	27			
Wheaton	27			
James Hubert Blake	26			
Damascus	25			
Gaithersburg	25			
Paint Branch	23			
Northwood	22			
Sherwood	22			

F. Other Courses Available

MCPS provides courses for numerous populations that are not summarized in this report. In addition to English Learner/Multilingual Education and special education available at all MCPS schools, MCPS enables students to enroll in community college courses, ROTC courses, and internships. While these courses were not the focus of this report the following briefly summarizes these programs.

[38] This table reflects the data provided to OLO for Spring 2025. MCPS staff report the current number of courses for schools with an IB programs as follows:

Schools With IB Program	AP Courses	IB Courses
Bethesda-Chevy Chase	27	38
Richard Montgomery	24	45
Springbrook	23	41
Rockville	21	30
Albert Einstein	19	37
John F. Kennedy	12	56
Watkins Mill	11	50
Seneca Valley	10	45

Alternate Learning Outcomes (ALO) Courses. MCPS special education services follow one of two paths: (1) a curriculum that results in a high school diploma; or (2) the Alternate Learning Outcomes (ALO) curriculum, which leads to a high school certificate. While special education was not the focus of this report, OLO identified 58 ALO courses in high schools across multiple subject areas including math, science, English, social studies, art, and transition skills.

Emergent Multilingual Learner (EML) Courses. EML courses are for those students who speak a language other than English and are in the process of learning to speak English. MCPS provides several English and English Language Development courses for these students.

Montgomery College Courses (MC). MCPS offers dual enrollment options for students through Montgomery College. Dual enrollment allows qualified students to be fully admitted and enrolled at Montgomery College while completing high school, potentially earning an associate degree while meeting high school graduation requirements. High school students can enroll in select college courses offered at their high school, Montgomery College, or online.

MCPS dual enrollment is available to students at all County high schools, and specific programs are offered at certain locations. There are several dual enrollment pathways for students including Virtual Middle College, Early College, Middle College, Jumpstart and PTECH. These programs are all application based. Students may generally enroll in any credit-bearing course where they have met the assessment and prerequisite levels; there is an approved list of courses (currently 686 courses) available online[39] that summarizes courses and the corresponding MCPS graduation requirement. Classes are available in many subject areas, and some include:

- Government and Nonprofit Accounting;
- Survey of African Art;
- Python Programming;
- Women in Literature;
- Physical Geology;
- Elementary Korean;
- Introduction to the Study of Ethics; and
- Introduction to Abnormal Psychology.

Other Courses. MCPS offers additional courses that do not fall into any of the above categories – the Junior Reserve Officer's Training Corps (JROTC) and general internships/apprenticeships (which may in any subject area):

- JROTC specific classes are available at the five schools that offer the JROTC programs (Naval Sciences at Gaithersburg, Kennedy, Paint Branch, Seneca Valley and Army JROTC at Magruder); and
- Internships/apprenticeships are available in some form at all 25 high schools with the courses being identified by designation WBL (see Appendix for specific coursework associated).

[39] https://www.montgomeryschoolsmd.org/curriculum/partnerships/dual-enrollment/

Chapter 5. Overview of Middle School Courses

This chapter provides an overview of all courses available to middle school students across MCPS. The categorization of subject areas in middle school is different compared to high school. *For the purpose of this chapter, OLO distinguishes between "core" middle school courses, (English, math, science, social studies, and health/physical education) that all middle school students must take and "elective" courses that students can choose to take or not (and must choose between different available courses).* It is important to note that while some courses are identified as elective courses in middle school, these courses may serve as a graduation requirement (world language, fine art, etc.).

This chapter is a summary; for a complete listing of all MCPS courses by school, please see Appendix. Some notes about this report and the information in this chapter:

- MCPS provided enrollment by course and school for the Spring of 2025, which is the data used in this summary;
- All courses with at least one student enrolled were included in this information;
- Courses are often across two semesters and therefore OLO combined courses (for example, Honors Geometry A and Honors Geometry B are listed as Honors Geometry A/B and the enrollment for the "A" class is included if the numbers did not match because students joined or dropped the course);
- This report does not focus on ALO or ESL courses, and are therefore not included; and
- Course summaries are provided by subject area.

The end of this chapter provides a summary of middle school students that attend high schools for specific classes.

Overall, OLO found that for "core" middle school courses (English, math, science, social studies, and health/PE), all MCPS schools offer the same courses in various forms (i.e. magnet science courses instead of general science courses). OLO attempted to identify "elective" courses (for middle school that includes anything other than "core" subjects listed above – "core" courses are different in high school) in middle schools. OLO found schools offer a variety of courses and vary on the number of courses offered by school – ranging from 17 elective courses at John Poole to 53 elective courses at Silver Spring International. These "elective" courses in middle school do not fulfill the elective graduation requirement but may meet other graduation requirements, include Regular Technology Education, World Language, or Fine Arts.

It is important to note that elective courses in middle schools may be for the full year, one semester, or one quarter – this table does not distinguish between them. This chapter will provide more information on these elective courses throughout MCPS middle schools.

Middle School	Number Electives	Middle School	Number Electives
Silver Spring International Middle	50	Silver Creek Middle	30
A. Mario Loiederman Middle	49	Benjamin Banneker Middle	29
Parkland Middle	47	Cabin John Middle	29
Julius West Middle	43	Herbert Hoover Middle	29
Odessa Shannon Middle	41	Newport Mill Middle	29
Argyle Middle	40	Redland Middle	29
Takoma Park Middle	40	Sligo Middle	29
Thomas W. Pyle Middle	40	Westland Middle	28
Gaithersburg Middle	38	White Oak Middle	28
Robert Frost Middle	38	Briggs Chaney Middle	27
Tilden Middle	36	Montgomery Village Middle	27
Forest Oak Middle	35	North Bethesda Middle	27
Kingsview Middle	35	Roberto W Clemente Middle	27
Earle B. Wood Middle	34	Rocky Hill Middle	27
Hallie Wells Middle	34	Eastern Middle	26
John T. Baker Middle	32	Rosa Parks Middle	26
Lakelands Park Middle	32	Shady Grove Middle	26
Ridgeview Middle	32	William H. Farquhar Middle	25
Francis Scott Key Middle	31	Dr. Martin Luther King Jr. Middle	22
Neelsville Middle	30	John Poole Middle	17

A. Course Subject Areas with Both Middle School "Core" Classes and Electives

This section summarizes course availability (and enrollment in some cases) of those course subject areas that have core courses for students but also have elective courses (that may or may not meet some graduation requirements).

English (ENG) Courses. The curriculum for middle school English includes the same three core courses for all middle schools - *Advanced English for Grade 6, Advanced English for Grade 7,* and *Advanced English for Grade 8*. Many schools also offer developmental reading and academic literacy courses for students that meet the English requirement for middle school. Two schools that house the Magnet Humanities Communication Program (MLK and Eastern) have different English classes required for students in the program: Humanities English 6-8, Humanities Media 6-8, and Humanities Literature 6 and 7-8.

In addition to required English courses for all students, many middle schools offer English electives. The following table summarizes available English elective courses. Most English electives are available at a small number of schools. *Digital Literacy 1* is most commonly available, with almost half of middle schools offering the course.

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
MS Digital Literacy 1	17	84	10%
Contemporary Communication	9	85	9%
Lights Camera Literacy 1	5	82	9%
Lights Camera Film Literacy	3	86	9%
Lights Camera Literacy 2	3	93	10%
MS Digital Literacy 2	3	75	8%
MS Digital Literacy 3	3	19	2%
Lights Camera Media Literacy	2	35	3%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

The following table summarizes the number of English elective courses available to students at all MCPS schools. This includes all magnet related "elective" courses.

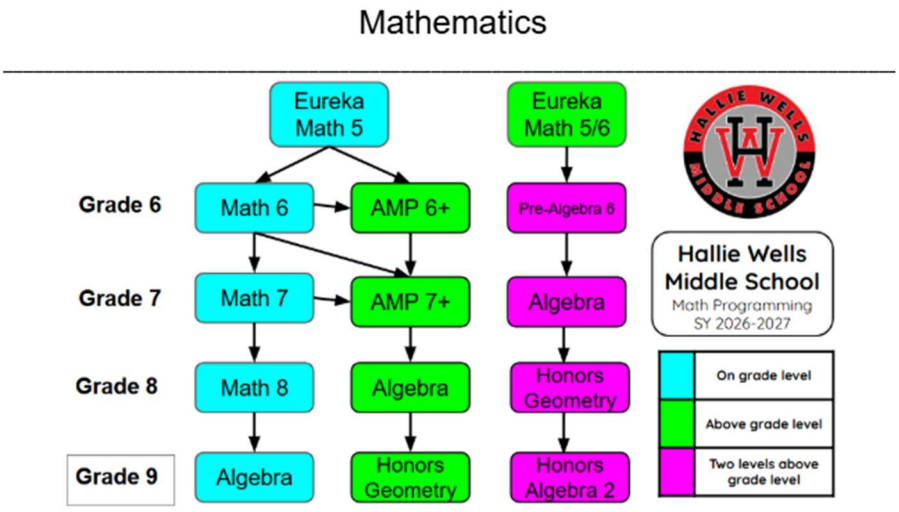
English Elective Course Availability	Schools	
No English Elective Courses	Banneker Cabin John MLK Gaithersburg John T. Baker Julius West Montgomery Village	Neelsville Newport Mill Redland Rocky Hill Shady Grove Tilden
One English Elective Course	Briggs Chaney Earle B. Wood Eastern Hallie Wells Hoover John Poole Kingsview	North Bethesda Odessa Shannon Clemente Rosa Parks Takoma Park Westland Farquhar
Two English Elective Courses	Argyle Forest Oak Francis Scott Key Lakeland Robert Frost	Silver Creek Sligo Thomas W. Pyle White Oak
Three English Elective Courses	Parkland Ridgeview	Silver Spring International
Four English Elective Courses	Loiederman	

Health and Physical Education (HPE) Courses. All 40 MCPS middle schools offer the same courses for Health and Physical Education. All students take the same classes:

Health Education Grade 6
Health Education Grade 7
Health Education Grade 8

Physical Education Grade 6
Physical Education Grade 7
Physical Education Grade 8

MATH (MAT) Courses. MCPS offers a variety of math courses for middle schoolers, depending upon the needs of individual students. There are numerous course paths that a student can start at and progress through – MCPS offers multiple "levels" of math at each grade. OLO found the following chart from the 2026-2027 course catalog of Hallie Wells Middle School that shows typical options for student math pathways.[40]



The following summarizes current courses available throughout MCPS. In addition, MCPS offers Math Application Concepts (MAC) Tier 1 and 2 for students with limited or interrupted formal education.

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Math 180[41]	20	27	3%
Grade 6 Math	34	160	18%
Accelerated Math 6 Plus	38	94	11%
Applied Investigations Math 6#	15	71	8%
Grade 7 Math	34	149	17%
Accelerated Math 7 Plus	40	166	19%
Grade 8 Math	39	136	15%
Algebra 1A/B##	40	183	21%
Honors Geometry A/B##	38	76	8%
Honors Algebra 2	3	20	2%

#Applied Investigation in Math 6: (Applied IM). This course compacts all Grade 7 Common Core Sate Standards and much of the Grade 8 Common Core State Standards into a single year. During Spring 2025, this was the title of the course – it is now called Grade 6, Pre-Algebra.

##OLO combined Algebra 1A and 1B and Honors Geometry A and B – the enrollment averages the "A" class.

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

[40] https://docs.google.com/document/d/1HJXGlNWxhzT3p9wrtgW4HUAm4BtFvp2TWxnrzO6T-x8/edit?tab=t.0

[41] Math 180 is considered an elective math course – it does not meet math requirement.

Three schools - Robert Frost, Takoma Park[42], and White Oak, offer Honors Algebra 2 at their school. Students in other middle schools must attend a local high school to take that class.

In addition to the courses listed above, both Roberto Clemente and Takoma Park offer math courses specific to their magnet programs - *Magnet Investigations in Math* and *Magnet Geometry*.

Science (SCI) Courses. The curriculum for middle school science includes the same three core courses for almost all middle schools in MCPS:

- All 40 schools have *Investigations in Physical Science* for 8th grade students;
- 39 schools have *Investigations in Life Science* for 7th grade students (except Parkland); and
- 39 schools have *Investigations in Earth Science* for 6th grade students (except Parkland).

Several middle schools have specialized science courses for students:

- Parkland MS has course availability in *Honors Physics, Astronomy, Earth Systems and Sustainability*, along with several other aerospace and flight specific courses as part of its magnet science program (these courses meet the science or elective graduation requirement);
- Takoma Park and Clemente MS (Mathematics/Science/Computer Science Program) have *Magnet Investigations in Science* courses parallel to the general curriculum.

In addition, Kingsview MS (no magnet program) has the only science elective outside of a magnet/specialized program – *Science of Sports and Recreational Activities*.

Social Studies (SOC) Courses. MCPS has two primary course pathways in social studies for middle school students: general curriculum courses in each grade or accelerated/enriched courses. All MCPS middle schools offer accelerated and enriched courses in social studies.

Course	Total Schools
General Courses	
Historical Inquiry in World Studies 6	32
Historical Inquiry in World Studies 7	32
Historical Inquiry US History 8	29
Enriched/Accelerated Courses	
Historical Inquiry Global Humanities 6	39
Historical Inquiry Global Humanities 7	38
Historical Inquiry American Studies 8	37

In addition to the above course availability:

- All Argyle MS 8th graders take *US History 8*;
- Five schools offer *Advanced US History 8* (Earle B. Wood, Eastern, Redland, Silver Creek and Farquhar middle schools) as an alternative to *Historical Inquiry US History 8* in four of these schools.

[42] MCPS staff report that Takoma Park no longer offers this course.

The Humanities Communication Programs at MLK and Eastern middle schools have the following social studies courses: *Humanities World Studies 6; Humanities World Studies 7;* and *Humanities US History 8*. Both schools also offer the accelerated/enriched courses listed above.

Several schools offer additional social studies elective courses (none of these classes meet any graduation requirements):

- *Middle School Model United Nations* at Gaithersburg, Kingsview, and Silver Spring International;
- *Student Court 7* and *Student Court 8* at Wood; and
- *Middle School African American Studies* at Banneker.

B. Course Subject Areas with Electives Only

This section summarizes the course availability across middle schools for subject areas that only have elective courses – ordered alphabetically by subject area. Several of these courses may meet graduation requirements (noted in the text).

ART (ART) Courses. MCPS offers arts electives in a variety of areas. This section summarizes arts electives available at MCPS middle schools.

Orchestra and Band. Orchestra and band courses are available in some form at all middle schools. The following summarizes the classes available.

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Beginning Orchestra MS & Creative Thinking A/B	10	23	3%
Orchestra 1 MS & Creative Thinking A/B	35	38	4%
Orchestra 2 MS	38	35	4%
Orchestra 3 MS	23	24	3%
Beginning Band MS & Creative Thinking A/B	11	34	4%
Band 1 MS & Creative Thinking A/B	36	49	5%
Band 2 MS	37	39	4%
Band 3 MS	30	38	4%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Chorus. Chorus is available in almost all MCPS middle schools - Argyle, Parkland, Rosa Parks, and Farquhar do not offer chorus. The following shows three courses available in Chorus.

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Chorus MS Creative Thinking & Singing 1A/B	36	45	5%
Chorus MS 2	30	45	5%
Chorus MS 3	25	39	4%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Other Music. In addition to orchestra, band and chorus, MCPS offers a general music elective along with instrument specific electives at a limited number of schools. Three schools - Loiederman, Odessa Shannon[43], and Silver Spring International – offer both piano and guitar courses.

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
General Music MS 1	23	112	13%
General Music MS 2	8	51	6%
General Music MS 3	4	36	4%
Guitar MS 1	10	40	4%
Guitar MS 2[44]	5	30	3%
Piano MS 1	4	66	8%
Piano MS 2	3	19	2%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

[43] MCPS staff report that Odessa Shannon no longer offers Guitar.

[44] MCPS staff report that only two schools currently offer Guitar 2.

Visual Art. MCPS has available a variety of art elective classes – drawing, ceramics, photography, digital art, etc. There is a wide range of availability of these elective classes. The most common courses are *MS Studio Art 1 and 2,* which most schools (36 out of 40) offer.

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
MS Studio Art 1	33	142	16%
MS Studio Art 1 TR[45]	3	140	21%
MS Studio Art 2	36	107	12%
MS Studio Art 2 TR	1	97	21%
MS Studio Art 3	29	83	9%
MS Dig Art Photography 1	18	109	12%
MS Dig Art Photography 1 TR	1	165	24%
MS Dig Art Photography 2	14	108	12%
MS Photography 3	2	92	10%
MS Digital Art 3	12	76	8%
Innovative Art & Design 1A/B	7	77	9%
Innovative Art & Design 2A/B	6	73	8%
Innovative Art & Design 3A/B	7	81	8%
MS Ceramic Sculpture 3	12	114	11%
MS Draw 2D Art 3	6	79	8%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

[45] Course is taken in trimesters.

Theater. Half of MCPS middle schools offer an introductory theater course, *Theater 1 MS,* while a quarter of schools offer three levels of theater courses. In addition, Loiderman MS offers Technical Theater.

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Theatre 1 MS	20	105	12%
Theatre 2 MS	17	47	5%
Theatre 3 MS	10	44	5%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Dance. Four MCPS middle schools offer dance classes – two (Kingsview and Redland[46]) offer an introductory course while Loiederman and White Oak offer three progressive courses.

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**	Schools
MS Dance 1	4	74	9%	Loiederman, Kingsview, Redland, White Oak
MS Dance 2	2	85	9%	Loiederman, White Oak
MS Dance 3	2	47	5%	Loiederman, White Oak

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Other Art Courses. Five schools – Eastern, Gaithersburg, Hoover, Rosa Parks, and Pyle – offers *Unified Arts Grade 6* for 6th graders. This course typically contains a different subject each quarter; some topics may include coding and robotic design, general music, and study skills.

Loiederman Middle School offers the Magnet for the Creative and Performing Arts, offering many elective art courses for students in the program. These classes are only available at Loiederman, and many meet the fine arts graduation requirement.

Education (EDU) Courses. These courses are listed in the MCPS course inventory as Education courses but are primarily Family and Consumer Science courses. MCPS offers four Family and Consumer Sciences classes across 11 middle schools, including *Creative Family and Consumer Sciences* (nine schools), *Family and Consumer Sciences Grade 7* (ten schools), *Family and Consumer Sciences Grade 8* (nine schools), and *Food and Nutrition* (two schools).

[46] MCPS staff report that Redland does not currently offer a Dance course.

School	Creative FACS	FACS 7	FACS 8	Food and Nutrition
Eastern	X			
Hallie Wells	X	X	X	
John T. Baker	X	X	X	
Neelsville	X	X	X	
Odessa Shannon		X	X	
Robert Frost	X	X	X	
Shady Grove	X	X		X
Silver Spring International	X	X	X	
Takoma Park	X	X	X	
Thomas W. Pyle	X	X	X	X
Tilden		X	X	
Average Enrollment*	**134**	**115**	**96**	**122**
Percentage of Students Enrolled**	**14%**	**12%**	**10%**	**14%**

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Arts, Media and Communications (AMC) Courses. Fourteen MCPS middle schools offer *TV Studio* to students:

- Argyle
- Benjamin Banneker
- Cabin John
- Eastern
- Hallie Wells
- John T. Baker
- Lakelands
- Robert Frost
- Rocky Hill
- Shady Grove
- Silver Spring International
- Thomas W. Pyle
- Tilden
- William H. Farquhar

Argyle Middle School is the only school that offers additional AMC classes - these classes are part of the Magnet Program for Digital Design and Development. In additional to *TV Studio*, students at Argyle can take the following courses: *Introduction to Digital Publishing* and *Introduction to Digital Media*.

Engineering (ENR) Courses. MCPS offers a variety of engineering courses to middle school students in both magnet/signature programs and the general student population. The following table summarizes the courses available across the school system. All these courses meet the regular technology education graduation requirement.

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
MS Innovation and Engineering Design	21	128	14%
MS Introduction to Technology and Engineering	16	173	18%
Technology Systems Grade 8	11	109	11%
MS Applied Engineering Design	11	80	9%
MS Engineering Design and Modeling	7	172	17%
Imagineering Technology	6	136	14%
CADD Architecture Applications	5	50	6%
Innovative Tech Solutions	3	72	9%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

In addition to the engineering classes listed above, there are several ITC classes only available at one middle school in the County:

- *Innovative Minds 1 and 2* are available at Argyle (Digital Design and Development Magnet);
- Parkland offers five courses in aerospace, robotics and 3D printing as part of the Magnet for Aerospace Technology (several courses meet science or TE graduation requirements); and
- Thomas Pyle offers *Gateway Technology*.[47]

There are seven middle schools without signature programs that offer the most engineering courses (four courses). The following table summarizes the availability of engineering courses across MCPS schools without a signature science program.

[47] PLTW middle school courses were added to Pyle as a pathway to engineering at Whitman.

Engineering Course Availability	Schools	
No Engineering Courses	John Poole Newport Mill Robert Frost	Roberto Clemente Sligo Westland
One Engineering Course	Loiederman MLK Eastern Gaithersburg Baker Neelsville	Odessa Shannon Redland Rosa Parks Silver Creek White Oak
Two Engineering Courses	Banneker Francis Scott Key Hallie Wells	Montgomery Village Rocky Hill Silver Spring International
Three Engineering Courses	Kingsview Lakelands North Bethesda Ridgeview	Shady Grove Takoma Park Pyle
Four Engineering Courses	Briggs Chaney Cabin John Wood Forest Oak	Hoover Julius West Tilden

Information Technology (ITC) Courses. MCPS middle schools offer an array of ITC courses, for both magnet/signature program students and those who are not. Foundations of Computer Science, a class that meets the technology requirement for graduation, is the most prevalent ITC class – available at 27 out of 40 schools (68%).

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
Foundations Computer Science[#]	27	60	7%
Coding Game Development 6	21	140	15%
Principles IT Digital Systems 7	14	64	7%
Robotic Design 6	12	146	16%
Principles IT Cybersecurity 7	12	72	8%
Computer Science Discoveries 1	7	117	12%
Computer Applications with Analysis	4	74	8%
Computer Science Discoveries 2	3	122	11%

[#]OLO combined Foundations of Computer Science TE A & B; FCS A had an average enrollment of 55 and FCS B had an average enrollment of 60

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

In addition, the following ITC classes are available at one or two schools throughout MCPS. Several of these classes are part of a magnet or signature program:

- *Magnet Computer Science Grades 6-8* is available at Clemente and Takoma Park; both have the Mathematics/Science/Computer Science Magnet Programs;
- Clemente is the only school that offers *Website Development Fundamentals*;
- John Poole is one of two schools that offers *Information Communication Technology TR* (along with Rosa Parks) and the only school that offers *Computer Applications with Analysis TR*;[48]
- Argyle (Magnet for Digital Design and Development) is the only school with *Programming Fundamentals* and *Advanced Programming and Game Design*;
- Argyle is also one of two schools that offers *Introduction to Web Tools* (along with Rosa Parks); and
- Forest Oak and Baker are the two schools which students can take *Information Communications Technology 6*.

The following table summarizes the number of ITC courses available to students at all MCPS schools that do not have magnet/signature programs. Most MCPS middle schools offered at least three ITC courses.

ITC Course Availability	Schools	
No ITC Courses	Loiederman MLK Hoover	Shady Grove Farquhar
One ITC Course	Eastern Redland	White Oak
Two ITC Courses	Banneker Briggs Chaney	Montgomery Village Rosa Parks
Three ITC Courses	Cabin John Wood Key Neelsville	Parkland Silver Spring International Westland
Four ITC Courses	Hallie Wells John Poole North Bethesda Odessa Shannon	Ridgeview Rocky Hill Pyle
Five+ ITC Courses	Forest Oak Gaithersburg Baker Julius West Kingsview Lakelands	Newport Mill Frost Silver Creek Sligo Tilden

[48] According to the data provided to OLO for Spring 2025, Information Technology Communications was being offered during that time. MCPS staff report that this course is no longer being offered.

Technology (TEC) Courses. MCPS offers five courses in middle school that fall under the TEC course category:

- *Gateway Medical Detectives* is offered at Gaithersburg MS;[49]
- *Foundations of Engineering and Technology* is available at five schools – Argyle, Hoover, Julius West, Takoma Park, and Tilden; and
- *Introduction to Engineering Design* is offered at 21 middle schools across the County.

World Language (WGL) Courses. MCPS middle schools offer Chinese, French and Spanish language courses to students (not all schools offer all languages). While language classes are considered "elective" in middle school, students are required to have two language credits in the same language to graduate, and many universities/colleges recommend at least two credits of language in high school. Many of these language courses do satisfy the world language graduation requirement. Some important notes about world language courses in middle school:

- "MS FY" language courses are the same course as the equivalent without the MS FY designation but are completed over one year instead of a semester (for example, Chinese 1A/B is completed over two semesters/one school year compared to MS Chinese 1A, which is completed in one school year and MS Chinese 1B completed the following year), MS FY language courses are worth .5 credit each; and
- If a world language course is not available at a particular middle school, students may be able to attend a local high school to complete the course (typically for level 3 language classes and it is not guaranteed).

Two MCPS schools, Julius West and Ridgeview, offer the course, *Awareness of Language Culture*.[50] The remainder of this section summarizes the courses available by language.

As stated in earlier chapters, individual schools can select which classes they offer in their schools. It should be noted that two middle schools, Farquhar and Poole did not offer world language courses until 7th grade. However, starting in 2025-26, Farquhar now offers language in 6th grade while Poole continues to offer it beginning in 7th grade. In response to OLO's inquiry into this, MCPS reported:

- Starting this school year, 2025-2026, Farquhar Middle School offers world language courses starting in 6th grade. In previous years, those courses started in 7th grade and students completed 1A/1B in their 7th grade year and 2A/2B in their 8th grade year. In years prior, Farquhar students articulated to high school ready to take level 3 world language similar to other middle school students across the County that are articulating to 9th grade.

[49] Offered at Gaithersburg MS as a pathway towards the Gaithersburg HS PLTW Biomedical Sciences Program.
[50] Awareness of Language Culture is not a high school credit bearing course. It is typically a quarter/semester long course designed as part of course rotation in Grade 6.

- John Poole Middle School starts their world language offerings in 7th grade. Students complete 1A/1B in their 7th grade year and 2A/2B in their 8th grade year. Due to the size of Poole and limited staffing, they are unable to start the world language offerings in 6th grade. Students leaving Poole and articulating to 9th grade are ready to take level 3 world language similar to other middle school students across the County that are articulating to 9th grade.

Chinese. Seven MCPS middle schools offer Chinese courses, including an Immersion Program at Hoover (see program description for more details). The following courses are available at MCPS middle schools.

Course	Cabin John	Hallie Wells	Hoover	Julius West	Frost	Pyle	Tilden[51]	Average Enrollment*	Percentage of Students Enrolled**
MS FY Chinese 1A/1B	X	X		X				24	2%
Chinese 1A/1B#			X		X	X	X	28	3%
Chinese 2A/AB	X	X	X	X	X	X		37	3%
Hon Chinese 3A/AB			X		X			42	5%

#Students in the Hoover Immersion Program take a different Chinese 1 course entitled *Chinese Language Immersion 1A/1B*.
*Column lists average schoolwide enrollment among schools that offer the course
**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

French. French language classes are available at most MCPS middle schools – except for Poole and Baker. The following table summarizes the number of schools and enrollment of French language courses available in MCPS middle schools.

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
MS FY French 1A/1B	16	51	5%
French 1A/1B	30	61	7%
French 2A/2B	34	40	4%
French 3A/3B	2	29	3%
Hon French 3A/3B	18	22	2%

*Column lists average schoolwide enrollment among schools that offer the course
**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

Two French Immersion programs at Gaithersburg and Silver Spring International Middle Schools have specialized classes in language. These schools also offer many of the above French classes for students not in the immersion program.

Spanish. Some level of Spanish language classes are available at all MCPS middle schools, with most schools offering Spanish level 1-3. The following summarizes Spanish classes available across MCPS. MCPS offers seven Spanish Immersion programs at the following middle schools: Gaithersburg, Lakelands Park, Newport Mill, Odessa Shannon, Silver Spring International, Westland, and White Oak.

[51] As of the 2025/26 school year, Tilden MS is offering Chinese 1A/B and Chinese 2A/B.

Course	Number of Schools	Average Enrollment*	Percentage of Students Enrolled**
MS FY Spanish 1A	19	129	14%
MS FY Spanish 1B	20	94	10%
Spanish 1A/B	39	123	14%
Spanish 2A/B	39	119	13%
Spanish 3A/3B	1	55	6%
Hon Spanish 3A/B	27	64	7%
Spanish For Spanish 1A/B	18	45	5%
Spanish For Spanish 2A/B	14	30	3%
Spanish Literacy 1A/B	13	45	5%

*Column lists average schoolwide enrollment among schools that offer the course

**Column lists the percentages of students enrolled in the course out of all students in schools that offer it

C. Summary of Middle School Students Attending Specific High School Courses

As stated earlier, if middle school students require a high school level course that is not provided in their home middle school, they are able to attend a local high school for that course. Typically, these courses are taken first period, after which the student returns to his/her/their middle school. Transportation is provided for these courses.

MCPS provided OLO with data on the number of students, courses taken, and schools involved for middle school students attending high school courses. This data is for MCPS students as of Fall 2025 and is summarized below.[52] This is a summary of courses taken by high school. For full information on the courses by middle school, see Appendix.

Overall, MCPS reports there are 171 middle school students taking a course at a local high school (some students are taking more than one course, so total courses taken is higher than the 171 student count). There are five math courses, seven world language courses, and one other course (Naval Science) being taken in high schools by middle school students. Enrollments show that Honors Algebra 2A/B, Honors French 3A/B, and French 2A/B account for 57% of all courses that middle school students take at a high school.

[52] MCPS staff report that as of January 5, 2026, there were 157 middle school students attending high schools for at least one course.

Course	Einstein	Clarksburg	Magruder	Gaithersburg	Blair	Northwest	Paint Branch	Poolesville	RM	Rockville	Seneca Valley	Sherwood	Springbrook	Wheaton	Churchill	Total
	Number of Middle Students Enrolled															
Math																
Algebra 2A/B		2														2
Honors Algebra 2A/B		1			3	10		1	3	1	3	3			15	40
Honors Precalculus A/B									1						2	3
IB An/App Functions A/B									2							2
Magnet Functions A/B					2											2
Total Math		*3*			*5*	*10*		*1*	*6*	*1*	*3*	*3*			*17*	*49*
World Languages																
French 2A/B		16				1		1								18
Honors Chinese 3A/B															10	10
Honors French 3A/B			1	8	2					2		7			13	33
Japanese 1A/B	6															6
Honors Spanish 3A/B		3	2			4		4								13
Honors Spanish 4A/B						1						1	6			8
Spanish For Spanish 3A/B									7					1		8
Total World Languages	*6*	*19*	*3*	*8*	*2*	*6*		*5*	*7*	*2*		*8*	*6*	*1*	*23*	*96*
Other																
Naval Science 1A/B				5			27									32
Total	**6**	**22**	**3**	**13**	**7**	**16**	**27**	**6**	**13**	**3**	**3**	**11**	**6**	**1**	**40**	**177**

OLO compared the courses listed in the table for middle school students attending high school with the availability of these courses in middle schools.[53] OLO identified that there were five courses available in some middle schools while students in other middle schools had to attend the local high school. OLO found in schools that offered the courses, enrollment was significantly higher than schools that did not and had students attending high school.

[53] It is important to note that OLO course availability data is from Spring 2025 and the middle school students attending high school courses is from Fall 2025. MCPS reports courses typically do not change significantly year to year.

	Number of Middle Schools Where Students Attend High School for Course	Average Enrollment in Middle Schools Where Students Have to Attend High School	Number of Middle Schools that Offer Course	Average Enrollment in Schools that Offer Course
Math				
Honors Algebra 2A/B	11	4	3	20
World Languages				
French 2A/B	4	5	34	40
Honors Chinese 3A/B	2	5	2	42
Honors French 3A/B	7	5	18	22
Honors Spanish 3A/B	4	3	27	64

Chapter 6. Equity in Course Availability

For middle and high school students, the coursework a particular student completes is based on a variety of factors including whether a course is offered in their school, their own preferences and interests, level of motivation, previous academic performance, and support/lack of support they receive from school staff. This chapter provides an overview of equity issues within course availability including a brief summary of research available on course availability followed by some analysis of equity within MCPS course availability.

A. Course Availability Equity Research

The differences in school course offerings is a result of many factors including financial resources, availability of qualified staff to teach such courses, and schools' prioritization of academic versus "practical" offerings. These disparities are magnified by policy choices such as non-transparent criteria for course enrollment, insufficient communication about available educational opportunities, and potential biases among educators.[54] The availability of coursework varies across schools. An analysis of Department of Education data show:

- 1.4 million students across the country attend public high schools that do not offer Algebra I or the subsequent progression of math courses expected by many colleges and universities for enrollment.
- 1.5 million students attend public high schools that do not offer Biology or higher.[55]
- Sixty percent of high poverty schools do not offer Physics or higher, compared to only 33 percent of low-poverty schools.

This is especially true for students of color. One study found that students in high schools serving high populations of Black and Latinx students were significantly less likely to have access to courses needed to prepare them for college and career.[56] Many issues of inequity can be traced to elementary schools, wherein educators and administrators may perpetuate racially charged ideas of intelligence that ultimately discourage students of color, especially Black students, from enrolling in advanced courses. Research has found that "tracking" based on academic achievement can result in segregation and result in Black and Latino students being more likely to end up in basic or remedial classes, while White and Asian students are more likely to be placed into advanced courses such as Honors or AP. Further, schools with higher percentages of BIPOC students tend to have poorer access to resources, less funding per student, and limited educational opportunities.[57]

---

[54] https://collegecampaign.org/wp-content/uploads/2023/08/Aug-2023-Math-Opp-final-comp.pdf

[55] https://www.excelined.org/wp-content/uploads/2018/10/ExcelinEd.Report.CollegeCareerPathways.CRDCAnalysis.2018.pdf

[56] https://www.excelined.org/wp-content/uploads/2018/10/ExcelinEd.Report.CollegeCareerPathways.CRDCAnalysis.2018.pdf

[57] https://minds.wisconsin.edu/bitstream/handle/1793/84893/Killian%20Lynsie%20Jones_Fall%202023%20Masters%

Access and Enrollment. Numerous research studies have been conducted, showing that particularly Black and Latinx students do not have the same access to courses as White students, particularly math courses. Research shows that the likelihood of enrolling in a 4-year college decreases when students take Algebra I after ninth grade.[58]

- A 2023-2024 RAND survey found that Algebra I was not available in 24 percent of the country's highest-poverty middle schools.[59]
- One study found that during 2020-2021 just 13 percent of Black 8th graders nationwide completed Algebra 1 compared to 25 percent of white 8th graders; [60]
- Another study found that students in low-poverty schools are nearly twice as likely to be enrolled in eighth grade algebra as students in high-poverty schools. Similarly, students in schools with the lowest percentages of students of color are about 1.5 times as likely to be enrolled in eighth grade algebra than students in schools with the highest percentages of students of color.[61]
- In 2019, only six percent of Black and nine percent of Latinx high school students earned credit in calculus, compared to 18% of White students and 46% of Asian American students. Similarly, students at schools in the highest-income quartile are three times as likely to take the course as those in the bottom half.[62]

Further, one study identified issues that can hinder equitable access to algebra and math education, including: [63]

- Uneven access to qualified math teachers;
- Math instruction that disproportionately focuses on remedial content in schools with high-poverty rates; and
- Different approaches to algebra eligibility and achievement grouping (e.g., tracking) that may perpetuate inequity.

Teacher Factor. The impact of teachers also plays a significant role in which courses are taken by students. Teachers may carry a bias – belief that Black, Latinx, and other minoritized students either would not be successful in advanced courses or would not need college courses as they likely are not college-bound. These beliefs reinforce and expand educational inequities, resulting in persistent gaps in access to

20Thesis_%20Racial%20Ethnic%20Disparities%20in%20AP%20Participation%20and%20Performance%20.pdf?sequence=1&isAllowed=y

[58] https://www.air.org/sites/default/files/2022-06/22-18169-Advanced-Coursetaking-Brief-061422.pdf

[59] Ibid.

[60] https://sdp.cepr.harvard.edu/blog/2025/02/whos-ready-algebra-1-expanding-access-and-equity-atlanta-middle-schools

[61] https://edtrust.org/rti/5-things-to-advance-equity-in-access-to-and-success-in-advanced-coursework/

[62] https://collegecampaign.org/wp-content/uploads/2023/08/Aug-2023-Math-Opp-final-comp.pdf

[63] https://caldercenter.org/sites/default/files/2025-01/CALDER-Brief-39-1024.pdf

advanced coursework for Black, Indigenous and other students of color. [64] These expectations can impact the courses students take in several ways:

- Teacher recommendations are often required to enroll in advanced coursework, acting as "gatekeepers" to higher courses. [65]
- Students may perceive and internalize teachers' expectations and change their approach to schooling in response. The response can be either (1) students perceive that teachers regard them in high esteem, and they may work harder or (2) students may interpret low expectations as an objective evaluation of their potential and behave in ways that are consistent with those expectations. [66]

Research also finds Black and Latinx teachers are underrepresented particularly in math courses due to a variety of factors, including under recruitment and discrimination in hiring processes, and insufficient resources, leadership, and support in their schools when they are hired.[67] One study found that high school students with a same-race or same-ethnicity teacher are more likely to take a higher math course in the next year than other students taking the same course in the same school.[68]

Identification of Student Pathways. Black students, particularly boys, suffer more impact from educational inequities due to racism. Studies have found that Black males are often over-referred for special education and under-referred for gifted/talented education, advanced placement and other accelerated programs. One study found that over a 20-year period (1998–2018), Black students accounted for 17% of all students in the United States, but only 7.3% of gifted/talented. Further, this population is more likely to be adultified and dehumanized, given harsher punishments, and viewed as lazy and apathetic.[69] Other studies have found that:

- Black students make up 16 percent of high school enrollments but only 13 percent of enrollments in advanced mathematics and 8 percent in calculus; for Latinx students, who are 24 percent of the overall high school population, these numbers are 19 percent and 16 percent.[70]
- Eighty percent of all high schools offer Algebra II and 65 percent offer advanced mathematics, but in schools serving large percentages of Black and Latinx students, those numbers fall to 74 percent and 55 percent, respectively.[71]

[64] https://edtrust.org/rti/5-things-to-advance-equity-in-access-to-and-success-in-advanced-coursework/
[65] https://eric.ed.gov/?id=EJ1271703
[66] Ibid.
[67] Ibid.
[68] https://eric.ed.gov/?id=EJ1271703
[69] https://onlinelibrary.wiley.com/doi/10.1002/jmcd.12283
[70] https://eric.ed.gov/?id=EJ1271703
[71] Ibid.

- Black and Latinx students comprised 15 and 25 percent, respectively, of public secondary school enrollment nationally in 2017-18, but only accounted for 9 and 19 percent of those taking dual enrollment courses.[72]
- An Atlanta study subset of students who had started middle school on grade level based on their 5th grade math scores found that 20 percent of White students and 22 percent of Asian students went on to pass Algebra 1 in 8th grade compared to 9 percent of Black students and 12 percent of Latinx students, with many students of color with families with lower incomes disproportionately being relegated to Math 8.[73]

Disparity in AP Access. Participation in AP courses and exams is beneficial for students for numerous reasons:

- Many schools and universities also award AP course grades with an additional point when calculating grade point average;
- Can provide college credit, which provides both a time and economic benefit for students requiring less coursework in college; and
- Viewed as indicators of academic rigor and seen as favorable during the college admissions process.[74]

A significant amount of research in disparity in course availability is focused on access to AP courses in high school. Inequity in AP participation is two-fold: there are few AP courses offered at schools serving primarily Black and Latinx students from families with lower incomes, and there is unequal access to AP participation for Black and Latinx students at predominantly White high schools.

Most students who enroll in AP courses are concentrated in the high schools in affluent, predominantly white suburbs of major cities.[75] Schools with high proportions of Black, Latinx, and low socioeconomic status students tend to offer fewer AP courses.[76]

In addition, even if a school offers a significant number of AP courses, that does not necessarily equate to equal participation among students. Often, Black and Latinx are less likely to be enrolled in an AP course for a multitude of reasons: students can only take AP classes through (1) teacher recommendations, who can have more negative perceptions and lower expectations of Black and Latinx students than they do of other students,[77] or (2) through a single state standardized test score which may not fully reflect a student's readiness for an AP course. Further, Black and Latinx students are often tracked into vocational training

---

[72] https://collegecampaign.org/wp-content/uploads/2023/10/FINAL-EIA-Dual-Enrollment-comp.pdf
[73] Ibid.
[74] https://apcentral.collegeboard.org/about-ap/ap-a-glance/discover-benefits
[75] https://www.jbhe.com/features/59_apscoringgap.html
[76] https://minds.wisconsin.edu/bitstream/handle/1793/84893/Killian%20Lynsie%20Jones_Fall%202023%20Masters%20Thesis_%20Racial%20Ethnic%20Disparities%20in%20AP%20Participation%20and%20Performance%20.pdf?sequence=1&isAllowed=y
[77] Ibid.

instead of college preparatory classes. [78] A further barrier for students is the fee for taking an exam in each subject area. While several states and the College Board offer fee reductions, the cost of the tests may still be a barrier. [79]

The following table displays data from the College Board on AP course availability by student race and ethnicity. It shows the racial disparities between AP course availability nationwide and in Maryland in the 2023-2024 school year. The College Board highlighted the following:[80]

- Nationally, Native American students were significantly less likely than all other groups to attend schools with 5 or more AP courses available in their high schools, attend schools providing 10 or more AP courses, and schools providing at least 1 AP STEM course.
- In Maryland, Black students were the least likely to attend schools that offered 5 or more or 10 or more AP courses or schools with at least one STEM AP course.
- Larger schools are more likely to offer AP. While only 48% of public high schools offered 5 or more AP courses in 2023-24, they were attended by 80% of the high school population.

Further College Board data (not shown in the table) show that from 2014 to 2024, the number of Latino students participating in AP courses nationally increased 83%. In the same time period, the number of Asian students increased 49%, Black students 26%, and White students 3%. However, despite increased enrollments in AP for all groups, participation gaps by race and ethnicity still exist.[81] As the second table shows – Asian and White students, along with students with two or more races, took AP exams at significantly higher rates compared to Black and Latinx students.

[78] https://www.edweek.org/leadership/equitable-access-to-ap-courses-how-each-state-is-doing/2024/08

[79] https://www.jbhe.com/features/59_apscoringgap.html

[80] https://apcentral.collegeboard.org/about-ap/ap-data-research/national-state-data

[81] https://www.sciencedirect.com/science/article/pii/S0160289624000886

Summary of 2023-2024 School Year – Percentage of Schools and Students that Have Access to AP Courses

	At Least Five AP Course	At Least Ten AP Courses	At Least One AP STEM Course
National			
Number of public high schools that offer:	9,396	6,462	11,516
Percentage of public high schools that offers:	48%	33%	59%
Percentage of public high school students whose school offers:	80%	66%	86%
By student race/ethnicity			
Percentage of **Asian** students whose high school offers:	93%	87%	96%
Percentage of **Hispanic/Latinx** students whose high school offers:	84%	71%	88%
Percentage of **White** students whose high school offers:	77%	63%	84%
Percentage of **Black or African American** students whose high school offers:	76%	59%	83%
Percentage of **Native American or Alaska Native** students whose high school offers:	52%	37%	64%
Percentage of **Native Hawaiian or other Pacific Islander** students whose high school offers:	81%	68%	87%
Percentage of **Two or More Races** students whose high school offers:	82%	69%	87%
Maryland			
Number of public high schools that offer:	190	167	204
Percentage of public high schools that offers:	84%	74%	90%
Percentage of public high school students whose school offers:	96%	89%	98%
By student race/ethnicity			
Percentage of **Asian** students whose high school offers:	99%	98%	>99%
Percentage of **Hispanic/Latinx** students whose high school offers:	96%	88%	98%
Percentage of **White** students whose high school offers:	99%	96%	>99%
Percentage of **Black or African American** students whose high school offers:	91%	79%	95%
Percentage of **Native American or Alaska Native** students whose high school offers:	97%	91%	98%
Percentage of **Native Hawaiian or other Pacific Islander** students whose high school offers:	97%	91%	98%
Percentage of **Two or More Races** students whose high school offers:	99%	96%	99%

Summary of 2023-2024 School Year – Percentage of High Schools Students in Grade 10-12 Who Took AP Exams

	Percentage of HS students in Grades 10, 11, and 12 who took AP Exams
National	20%
By examinee race/ethnicity	
Asian	50%
Hispanic/Latinx	18%
White	19%
Black or African American	11%
Native American or Alaska Native	8%
Native Hawaiian or other Pacific Islander	7%
Two or More Races	20%
Maryland	28%
Asian	58%
Hispanic/Latinx	20%
White	33%
Black or African American	18%
Native American or Alaska Native	25%
Native Hawaiian or other Pacific Islander	10%
Two or More Races	36%

B. Equity in Course Availability in MCPS Middle and High Schools

This section provides an analysis of the equity in MCPS course availability. OLO examined course availability across middle schools according to FARMS rate (with a specific review of middle school courses that meet high school requirements) and also reviewed high schools course availability by FARMS rate and the participation in AP courses by race. It is important to note that this is a very high-level overview of equity issues. Readers can get more in-depth information in the inventory of all courses provided by Appendix, which is sorted by FARMS rate.

OLO notes that for this section, racial categories used align with terms that MCPS uses in its data. This includes African American, American Indian/Alaskan Native, Asian, Hispanic, Native Hawaiian/Pacific Islander, White, and Multi-Racial.

Middle School Course Availability. The following table summarizes the number of courses by subject for middle schools by lowest to greatest FARMS rate (sorted by quartile). It is important to note that for many middle school subjects, courses are the same and available throughout all schools including:

- English;[82]
- Math;
- Science;
- Social Studies; and
- Health/Physical Education.

Some highlights include:

- Overall, the number of courses available by subject matter was fairly similar across all schools regardless of FARMS rate;
- All schools offered the same number of courses in English, math, health/physical education, science and social studies; and
- The range of courses by subject area was relatively similar across all quartiles of FARMS rates.

[82] Any courses in addition to the three core English classes listed in the chart would be "elective."

Number of Middle School Courses by Subject by FARMS Rate, Spring 2025 (Highlighted by Quartile)

School	FARMS Rate	ART	English	HPE	Math	Science	Social Studies	Technology	World Languages	Other*
Thomas W. Pyle	≤5.0%	15	9	6	8	3	6	1	10	11
Herbert Hoover	10.7%	12	5	6	6	3	3	1	11	5
Cabin John	12.1%	14	4	6	6	3	3	0	8	7
Robert Frost	12.4%	18	7	6	10	3	3	0	9	8
North Bethesda	12.5%	14	7	6	8	3	6	0	5	6
Westland	16.8%	14	6	6	8	3	6	1	9	3
John Poole	16.9%	9	6	6	9	3	6	1	2	4
Rosa Parks	17%	14	10	6	9	3	6	1	6	4
Hallie Wells	18.7%	15	6	6	8	3	6	1	7	10
Tilden	24.7%	17	4	6	7	3	6	1	6	13
Average		***14***	***6***	***6***	***8***	***3***	***5***	***1***	***7***	***7***
William H. Farquhar	28.3%	13	5	6	5	3	6	1	4	6
Silver Creek	31.5%	15	8	6	8	3	6	1	6	6
Lakelands Park	32.1%	12	7	6	5	3	6	1	7	10
John T. Baker	33.9%	20	5	6	8	3	6	0	3	9
Kingsview	34.7%	18	6	6	8	4	7	0	5	8
Takoma Park	35.3%	18	7	6	11	6	3	1	8	12
Julius West	38.6%	19	10	6	8	3	6	1	14	9
Ridgeview	41.3%	14	9	6	6	3	6	1	8	7
Earle B. Wood	47.1%	18	6	6	10	3	8	1	6	7
SS International	47.2%	24	9	6	8	3	5	0	14	8
Average		***17***	***7***	***6***	***8***	***3***	***6***	***1***	***8***	***8***

*Includes AMC, EDU, ENR, ITC, TEC courses

Number of Middle School Courses by Subject by FARMS Rate, Spring 2025 (Highlighted by Quartile) (Continued)

School	FARMS Rate	ART	English	HPE	Math	Science	Social Studies	Technology	World Languages	Other*
Sligo	47.6%	16	8	6	9	3	6	0	7	4
Rocky Hill	48.7%	14	5	6	8	3	6	1	6	7
Redland	53.6%	20	7	6	8	3	5	1	6	3
Roberto W	54.4%	11	7	6	8	6	6	0	7	7
Shady Grove	55.6%	10	5	6	7	3	6	1	8	8
MLK	58%	12	13	6	8	3	6	1	7	2
Gaithersburg	58.6%	18	5	6	9	3	4	1	13	6
Newport Mill	59.1%	16	7	6	7	3	6	0	7	5
Briggs Chaney	59.3%	14	8	6	9	3	6	0	6	5
Eastern	59.6%	14	15	6	9	3	9	0	7	4
Average		***15***	***8***	***6***	***8***	***3***	***6***	***1***	***7***	***5***
Loiderman	62.4%	34	10	6	10	3	6	0	10	1
Parkland	66%	13	12	6	8	9	6	1	11	11
Neelsville	66.7%	14	6	6	8	3	6	1	8	7
Benjamin Banneker	68.2%	13	6	6	8	3	7	1	9	6
Argyle	68.5%	11	6	6	4	3	4	2	8	19
White Oak	71.2%	15	6	6	9	3	3	1	8	3
Forest Oak	72.5%	15	8	6	9	3	6	0	8	10
Montgomery Village	75%	13	5	6	8	3	6	1	8	5
Odessa Shannon	75%	21	7	6	8	3	6	0	12	6
Francis Scott Key	75.4%	17	7	6	7	3	6	0	7	4
Average		***17***	***7***	***6***	***8***	***4***	***6***	***1***	***9***	***7***

*Includes AMC, EDU, ENR, ITC, TEC courses

OLO also looked at courses available in middle schools that meet any high school graduation requirement (see Chapter 3 for more information). The chart shows the distribution of these courses across middle schools. Overall, OLO found that the number of courses available varies across all schools within each quartile – there are both low and high FARMS rates schools that have a high number of courses in middle school that meet a graduation requirement. The data also show:

- There were only three schools, Banneker, Eastern and Loiderman, that do not offer a technology education course that meets the graduation requirement; and
- All middle schools offered at least two language courses that meet the world language requirement.

In addition to the courses listed in the table below, there are additional courses that meet several graduation requirements:

- Algebra I is available at all middle schools (meet algebra and geometry requirements) while Honors Geometry is offered at 39 schools (Montgomery Village does not);
- Honors Algebra II (meets math requirement) is available at three schools – Frost (12% FARMS), Takoma Park (35% FARMS)[83] and White Oak (71% FARMS);
- Four arts courses (Dance Fine Art, Foundations of Art and Culture, Concert Band, and Concert Orchestra) that meet the Fine Arts requirement are only at Loiederman (62% FARMS); and
- Astronomy and Honors Physics (both meet elective requirement) are available only at Parkland (66% FARMS).

[83] The data provided to OLO for Spring 2025 included that Takoma Park MS offered Honors Algebra II. MCPS staff report that Takoma Park MS students now attend Blair High School for Algebra II.

Number of Middle School Courses that Meet High School Graduation Requirement by FARMS Rate, Spring 2025 (Highlighted by Quartile)

School	FARMS Rate	Information Technology	Chinese	French	Spanish	Total
Thomas W. Pyle	≤5.0%	2	2	3	3	**10**
Herbert Hoover	10.7%	1	4	3	3	**11**
Cabin John	12.1%	1	1	1	3	**6**
Robert Frost	12.4%	1	3	3	3	**10**
North Bethesda	12.5%	1	0	1	2	**4**
Westland	16.8%	2	0	3	6	**11**
John Poole	16.9%	2	0	0	3	**5**
Rosa Parks	17%	1	0	2	3	**6**
Hallie Wells	18.7%	2	1	1	2	**6**
Tilden	24.7%	2	1	2	3	**8**
Average		**2**	**1**	**2**	**3**	**8**
William H. Farquhar	28.3%	1	0	2	2	**5**
Silver Creek	31.5%	2	0	3	3	**8**
Lakelands Park	32.1%	2	0	1	4	**7**
John T. Baker	33.9%	1	0	0	2	**3**
Kingsview	34.7%	1	0	2	3	**6**
Takoma Park	35.3%	1	0	3	3	**7**
Julius West	38.6%	2	1	3	6	**12**
Ridgeview	41.3%	2	0	2	5	**9**
Earle B. Wood	47.1%	2	0	2	5	**9**
Silver Spring International	47.2%	1	0	3	8	**12**
Average		**2**	**0**	**2**	**4**	**8**
Sligo	47.6%	1	0	2	3	**6**
Rocky Hill	48.7%	2	0	1	4	**7**
Redland	53.6%	1	0	1	3	**5**
Roberto W Clemente	54.4%	2	0	3	4	**9**
Shady Grove	55.6%	1	0	1	5	**7**
Dr. Martin Luther King Jr.	58%	1	0	3	4	**8**
Gaithersburg	58.6%	1	0	3	7	**11**
Newport Mill	59.1%	1	0	1	6	**8**
Briggs Chaney	59.3%	1	0	3	3	**7**
Eastern	59.6%	0	0	2	5	**7**
Average		**1**	**0**	**2**	**4**	**8**
A. Mario Loiederman	62.4%	0	0	3	6	**9**
Parkland	66%	1	0	3	6	**10**
Neelsville	66.7%	2	0	2	4	**8**
Benjamin Banneker	68.2%	1	0	3	4	**8**
Argyle	68.5%	3	0	2	6	**11**
White Oak	71.2%	1	0	3	5	**9**
Forest Oak	72.5%	1	0	2	6	**9**
Montgomery Village	75%	1	0	3	5	**9**
Odessa Shannon	75%	1	0	2	8	**11**
Francis Scott Key	75.4%	1	0	3	3	**7**
Average		**1**	**0**	**3**	**5**	**9**

High School Course Availability. The following table shows the course availability by subject areas for schools by FARMS rate. While there is significant variation school to school, overall, when comparing quartiles divided by FARMS rate, MCPS high schools offer a similar number of classes in almost all subject areas including math, science, social studies, English. The data also show:

- Half of schools with the highest FARMS rates offered, on average, more than ten more CTE courses compared with lower FARMS rate schools;
- Schools with the highest and lowest FARMS rates offered less art courses than schools in middle half; and
- The schools with the lowest FARMS rates, on average, offered fewer courses overall.

Summary of Courses Available by Graduation Requirement Subject by FARMS Rate, Spring 2025 (Highlighted by Quartile)

Schools	FARMS Rate	Enrollment	English	Math	Science	Social Studies	World Languages	Health/ Physical Education	Fine Arts	CTE	Tech Ed	Elective	Total
Whitman	≤5.0	2,018	10	16	18	9	38	8	36	21	3	35	194
Churchill	9.7	2,234	16	20	18	13	21	8	45	12	5	36	194
Poolesville	10.8	1,309	15	24	32	11	11	2	21	15	5	38	174
Wootton	11.9	1,911	12	18	16	7	24	10	34	18	2	32	173
Walter Johnson	16.7	2,942	15	19	19	12	30	9	47	22	6	37	216
Sherwood	20.3	1,721	13	16	15	7	10	10	35	29	5	24	164
Average			***14***	***19***	***20***	***10***	***22***	***8***	***36***	***20***	***4***	***34***	***186***
BCC	22.5	2,335	13	22	21	13	41	9	44	23	3	44	233
RM	30.5	2,390	22	26	26	12	37	9	42	9	6	41	230
Damascus	30.6	1,414	12	14	16	7	13	9	31	26	3	23	154
Northwest	35.0	2,484	11	18	13	8	17	9	38	24	5	39	182
Clarksburg	36.4	2,251	13	18	17	12	21	10	33	26	5	34	189
Quince Orchard	36.5	2,154	16	19	17	10	23	10	44	32	4	30	205
Average			***15***	***20***	***18***	***10***	***25***	***9***	***39***	***23***	***4***	***35***	***199***
Magruder	44.0	1,686	15	18	19	11	20	10	29	52	4	28	206
Rockville	44.5	1,516	17	19	19	13	26	10	26	20	5	33	188
Blair	44.7	3,204	12	29	40	8	27	12	56	27	3	77	291
Einstein	47.1	2,012	16	15	14	8	29	9	49	27	4	34	205
Seneca Valley	49.9	2,239	17	23	16	13	24	9	45	55	3	43	248
Blake	54.9	1,784	12	16	12	11	18	9	53	24	5	32	192
Average			***15***	***20***	***20***	***11***	***24***	***10***	***43***	***34***	***4***	***41***	***222***
Paint Branch	56.8	2,135	13	17	19	8	19	10	25	50	4	30	195
Gaithersburg	57.6	2,436	13	19	18	11	18	12	34	40	4	26	195
Wheaton	58.3	2,599	12	21	16	11	21	9	33	25	4	32	184
Springbrook	61.0	1,838	17	19	22	10	27	9	30	35	4	32	205
Northwood	62.9	1,796	15	19	16	11	18	8	42	32	4	29	194
Watkins Mill	64.4	1,715	16	22	18	12	25	8	25	23	4	41	194
Kennedy	70.4	1,827	23	23	19	12	22	11	36	34	4	32	216
Average			***16***	***20***	***18***	***11***	***21***	***10***	***32***	***34***	***4***	***32***	***198***

Almost all schools offer the same "core" courses for "core" subjects – English, math, science, social studies and health/physical education. These courses include those that are the most typical pathway within each subject area. Because these courses are generally the same across all schools across all FARMS rates, OLO reviewed other courses that are not part of the core pathways - these courses can meet the elective, Fine Arts, World Language, CTE, or technology education requirements.

The table below shows the availability of these "elective" courses by school identified by FARMS rates. OLO only includes courses that are available at at least half of MCPS high schools (12 schools). For all other courses, see the inventory created in the Appendix which is organized by FARMS rate. Overall, OLO found that, within each FARMS quartile, courses were offered at similar rates – the schools with the lower rates of FARMS did not offer demonstrably more courses in any subject area.

Number of High Schools with Select Elective Courses

Course	FARMS RATE QUARTILE			
	Lowest			**Highest**
	Whitman Churchill Poolesville Wootton WJ Sherwood	BCC RM Damascus Northwest Clarksburg QO	Magruder Rockville Blair Einstein Seneca Valley Blake	Paint Branch Gaithersburg Wheaton Springbrook Northwood Watkins Mill Kennedy
	Number of Schools with Course			
Education				
Child Growth and Development A/B	4	5	4	5
Learning Environment Preschoolers A/B	4	5	4	5
Child Development Association Portfolio A/B	2	4	2	4
English				
Yearbook 1A/B	6	6	5	7
Journalism A/B	5	4	5	5
Creative Writing A/B	3	5	5	5
Yearbook 2A/B	3	5	3	5
Techniques of Advanced Journalism	6	3	5	2
Publications Editing/Business	3	2	4	3
TV Production 1	0	0	0	0
Engineering				
Engineering Design Development	3	3	3	4
Digital Electronics	3	3	2	4
Principals of Engineering	3	3	3	3
Information Technology				
Foundations Computer Science TE A	5	6	4	7
Computer Programming 1A/B	2	6	5	5
Computer Programming 3 Advanced Topics A/B	4	4	4	5
Science				
Anatomy and Physiology A/B	6	6	5	4
Forensic Science A/B	5	5	4	5
Earth Systems and Sustainability A/B	4	4	5	6
Astronomy with Physics A/B	4	4	4	6
Social Studies				
Personal Finance	6	6	6	5
Law	6	5	3	4
Sociology 1	3	5	4	6
Psychology 1	2	2	4	4
Technology				
Foundations Of Technology A/B	3	5	4	5

The following table highlights the availability of language pathways across MCPS high schools. Not included in the table – all MCPS high schools offer Spanish as a language pathway and all but one school offer French (Damascus does not). The table shows that, in general, schools with lower FARMS rates tend to offer more language pathway options. Nine of the twelve lowest FARMS rates schools offer at least two languages in addition to Spanish/French compared to one of the twelve highest FARMS schools.

Summary of Language Pathways Available by School FARMS Rate, Spring 2025 (Highlighted by Quartile)

School	FARMS Rate	Language Pathways Available
Whitman	<5%	ASL, Chinese, Italian, Japanese, Latin, Arabic
Churchill	9.7%	ASL, Chinese
Poolesville	10.8%	
Wootton	11.9%	ASL, Chinese
Walter Johnson	16.7%	ASL, Chinese, Italian, Latin
Sherwood	20.3%	
BCC	22.5%	Chinese, Arabic
RM	30.5%	ASL, Chinese
Damascus	30.6%	ASL, Italian
Northwest	35.0%	ASL
Clarksburg	36.4%	ASL, Chinese
Quince Orchard	36.5%	ASL, Chinese, Latin
Magruder	44.0%	ASL
Rockville	44.5%	ASL
Blair	44.7%	Japanese
Einstein	47.1%	Japanese
Seneca Valley	49.9%	ASL
Blake	54.9%	ASL
Paint Branch	56.8%	Japanese
Gaithersburg	57.6%	ASL
Wheaton	58.3%	Chinese, Italian
Springbrook	61.0%	Italian
Northwood	62.9%	Arabic
Watkins Mill	64.4%	
Kennedy	70.4%	ASL

OLO also reviewed the number of art courses by FARMS rate and found that the highest FARMS rates school quartile had fewer art courses offered – an average of 30 courses compared to 35-40 for the other quartiles. Northwood is the exception in the highest FARMS rates schools with 43 art courses (aligned with multiple art-related academies).

Summary of Art Courses Available by School FARMS Rate, Spring 2025 (Highlighted by Quartile)

High School	FARMS Rate	Dance	Visual Arts	Fashion	Photography	Ceramics	General Music	Piano	Guitar	Chorus	Band/Orchestra	Theater	Other	Total
Whitman	<5%	0	10	0	4	3	2	2	2	4	6	0	3	**36**
Churchill	9.7%	0	11	5	4	4	1	2	2	3	7	4	1	**44**
Poolesville	10.8%	0	4	0	3	3	1	0	2	2	4	0	1	**20**
Wootton	11.9%	0	10	2	2	3	1	0	2	3	5	4	1	**33**
Walter Johnson	16.7%	0	10	0	5	5	2	3	4	4	6	5	1	**45**
Sherwood	20.3%	0	9	0	3	3	2	3	3	2	4	3	0	**32**
BCC	22.5%	1	7	0	3	3	1	2	2	5	7	6	1	**38**
RM	30.5%	0	7	0	4	4	0	2	4	4	6	3	2	**36**
Damascus	30.6%	0	7	0	2	4	1	0	3	3	5	2	3	**30**
Northwest	35.0%	0	8	0	4	4	2	3	3	4	5	3	1	**37**
Clarksburg	36.4%	0	10	1	3	3	1	2	0	4	5	4	0	**33**
Quince Orchard	36.5%	0	10	0	3	4	1	4	4	3	6	5	2	**42**
Magruder	44.0%	0	9	0	5	4	1	0	2	3	4	0	1	**29**
Rockville	44.5%	1	8	0	2	3	0	2	2	2	5	0	0	**25**
Blair	44.7%	1	13	1	5	6	2	3	4	5	6	6	2	**54**
Einstein	47.1%	5	10	0	3	4	1	2	3	3	6	3	1	**41**
Seneca Valley	49.9%	0	6	0	4	6	1	4	4	3	5	5	1	**39**
Blake	54.9%	6	9	5	5	4	2	3	3	3	8	4	1	**53**
Paint Branch	56.8%	0	3	0	3	4	0	3	1	4	2	5	0	**25**
Gaithersburg	57.6%	0	6	3	4	4	0	1	1	3	5	4	1	**32**
Wheaton	58.3%	3	9	0	4	3	1	2	2	3	2	3	1	**33**
Springbrook	61.0%	1	4	0	1	3	2	2	2	2	6	2	1	**26**
Northwood	62.9%	6	8	1	3	3	2	2	2	3	6	6	1	**43**
Watkins Mill	64.4%	0	5	0	3	3	1	2	1	0	4	3	0	**22**
Kennedy	70.4%	2	7	2	2	3	0	2	0	2	4	2	0	**26**

AP Course Participation by Race. MCPS provided OLO with information on AP course participation by school, race, and gender. This information is also available publicly on MCPS Dashboards.[84] The next table summarizes the AP courses available in each subject area by school listed by FARMS rates. Overall, OLO found that in general:

- Schools with lower FARMS rates offered more AP courses than those with higher FARMS rates;
- Schools with lower FARMS rates offered more AP courses in art, science, social studies and world language;
- The number of AP courses in math, technology, and English were similar across schools with all levels of FARMS rates; and
- Schools with IB programs offered fewer AP courses than those without, but IB schools with low FARMS rates still offered more AP courses than IB schools with high FARMS rates.

[84] https://ww2.montgomeryschoolsmd.org/data/individual-measures.html

Number of AP Courses Available by FARMS Rate, Spring 2025 (Highlighted by Quartile)

School	FARMS Rate	IB Program	Art	Math	Social Studies	Science	World Languages	Technology Education*	English	Other**	Total
Walt Whitman	≤5.0%		7	3	9	6	6	2	2	0	35
Winston Churchill	9.7%		8	3	11	6	3	2	2	2	37
Poolesville	10.8%		5	3	7	7	1	3	3	2	31
Thomas S. Wootton	11.9%		8	3	9	5	3	2	3	2	35
Walter Johnson	16.7%		9	3	10	6	5	3	2	1	39
Sherwood	20.3%		3	3	6	4	1	2	3	0	22
Average			**7**	**3**	**9**	**6**	**3**	**2**	**3**	**1**	**33**
Bethesda-Chevy Chase	22.5%	x	3	3	10	4	3	2	2	0	27
Richard Montgomery	30.5%	x	3	3	7	4	3	2	2	0	24
Damascus	30.6%		2	4	7	4	1	2	3	1	24
Northwest	35%		5	4	9	5	3	2	2	1	31
Clarksburg	36.4%		5	3	9	5	2	4	3	0	31
Quince Orchard	36.5%		8	4	8	5	2	2	3	0	32
Average			**4**	**4**	**8**	**5**	**2**	**2**	**3**	**0**	**28**
Col. Zadok Magruder	44%		5	4	6	5	2	3	2	0	27
Rockville	44.5%	x	3	4	6	2	1	3	2	0	21
Montgomery Blair	44.7%		5	3	9	9	4	2	2	0	34
Albert Einstein	47.1%	x	5	3	5	0	1	3	2	0	19
Seneca Valley	49.9%	x	0	3	5	0	0	2	0	0	10
James Hubert Blake	54.9%		4	3	7	4	2	2	2	2	26
Average			**4**	**3**	**6**	**3**	**2**	**3**	**2**	**0**	**23**
Paint Branch	56.8%		2	3	6	5	2	2	3	0	23
Gaithersburg	57.6%		3	3	4	5	3	4	3	0	25
Wheaton	58.3%		4	3	6	6	2	2	3	0	26
Springbrook	61%	x	3	4	5	4	2	2	3	0	23
Northwood	62.9%		4	4	4	3	2	2	3	0	22
Watkins Mill	64.4%	x	0	4	3	0	1	3	0	0	11
John F. Kennedy	70.4%	x	1	4	4	0	1	1	1	0	12
Average			**2**	**4**	**5**	**3**	**2**	**2**	**2**	**0**	**20**

*Includes computer science and business, management and finance (BMF) economics courses

**Includes AP Research and AP Seminar

The following table summarizes the racial background of all MCPS high schools students that take a particular AP course (across all schools). The data show that:

- African American students are underrepresented in AP participation overall and in all subject areas, particularly in art and world language AP courses;
- Hispanic students are also underrepresented in AP participation overall and in all but one subject area (World Languages) and in particular science, technology and math;
- Asian students are overrepresented in AP participation overall and in all but one subject area (World Languages) and double their representation in math, science and technology AP participation; and
- White students are overrepresented in AP participation overall and in all but one subject area (World Languages) and in particular art, social studies, and math.

Summary of AP Courses Taken by Race, Spring 2025 (Highlighted by Subject Area)

Course	African American	American Indian/ Alaskan Native	Asian	White	Native Hawaiian/ Pacific Islander	Hispanic	Multi-Racial	Total # Enrollments
Total MCPS High School Population	**21.9%**	**<1%**	**14.0%**	**24.4%**	**<1%**	**34.8%**	**0.3%**	**52,277**
Art	**12.1%**	**0.1%**	**22.1%**	**40.3%**	**0.0%**	**17.1%**	**8.4%**	**1052**
Art History	13.9%	0.4%	23.0%	39.1%	0.0%	12.2%	11.3%	230
Music Theory	10.8%	0.0%	26.9%	37.2%	0.0%	15.7%	9.4%	223
2D Art & Design	17.2%	0.0%	8.3%	40.8%	0.0%	26.1%	7.6%	157
Drawing	12.8%	0.0%	40.8%	24.0%	0.0%	17.6%	4.8%	125
2D Photography	9.8%	0.0%	18.5%	43.5%	0.0%	20.7%	7.6%	92
3D Art & Design	12.0%	0.0%	13.3%	54.2%	0.0%	15.7%	4.8%	83
Drawing DP	6.7%	0.0%	22.2%	48.9%	0.0%	13.3%	8.9%	45
Visual Art Center 4 DP	0.0%	0.0%	17.6%	50.0%	0.0%	17.6%	14.7%	34
2D Art & Design DP	7.7%	0.0%	19.2%	50.0%	0.0%	19.2%	3.8%	26
Visual Art Center 3 DP	12.0%	0.0%	16.0%	52.0%	0.0%	12.0%	8.0%	25
3D Art & Design	10.0%	0.0%	20.0%	60.0%	0.0%	10.0%	0.0%	10
AP 2D Photography DP	0.0%	0.0%	0.0%	50.0%	0.0%	50.0%	0.0%	2
English	**18.5%**	**0.2%**	**23.7%**	**35.7%**	**0.0%**	**16.0%**	**5.9%**	**8764**
Language and Composition	18.8%	0.1%	23.7%	34.4%	0.0%	17.3%	5.6%	4721
Literature and Composition	15.6%	0.2%	23.2%	41.0%	0.0%	13.8%	6.1%	3065
English 10 AP Seminar	26.1%	0.2%	24.8%	25.5%	0.0%	16.9%	6.5%	978
Math	**13.4%**	**0.2%**	**29.2%**	**36.9%**	**0.1%**	**14.2%**	**6.0%**	**6856**
Statistics	12.3%	0.3%	25.4%	41.5%	0.2%	14.7%	5.7%	2734
AB Calculus	15.4%	0.2%	26.7%	37.4%	0.1%	13.6%	6.7%	1871
BC Calculus	9.9%	0.3%	42.9%	33.5%	0.1%	8.1%	5.3%	1488
Precalculus	19.5%	0.1%	22.0%	25.8%	0.3%	26.0%	6.3%	763

Summary of AP Courses Taken by Race, Spring 2025 Continued (Highlighted by Subject Area) (Continued)

Course	African American	American Indian/ Alaskan Native	Asian	White	Native Hawaiian/ Pacific Islander	Hispanic	Multi-Racial	Total # Enrollments
Total MCPS High School Population	**21.9%**	**<1%**	**14.0%**	**24.4%**	**<1%**	**34.8%**	**0.3%**	**52,277**
Science	**15.0%**	**0.2%**	**32.7%**	**33.7%**	**0.0%**	**12.6%**	**5.9%**	**6018**
Physics	15.6%	0.2%	32.2%	32.2%	0.0%	12.9%	6.9%	1227
Biology DP	17.3%	0.1%	37.6%	25.9%	0.0%	14.1%	5.0%	1133
Chemistry DP	13.7%	0.1%	38.1%	31.2%	0.0%	10.9%	6.0%	837
Physics C Mechanics	11.1%	0.3%	43.3%	33.9%	0.0%	5.5%	5.9%	307
Physics C	8.0%	0.0%	33.2%	43.6%	0.4%	8.8%	6.0%	250
Physics C Electricity and Magnetism	7.4%	0.0%	52.1%	30.1%	0.0%	6.7%	3.7%	163
Biology	24.3%	0.7%	7.4%	44.9%	0.0%	16.2%	6.6%	136
Chemistry	18.8%	0.0%	22.2%	37.6%	0.0%	13.7%	7.7%	117
Physics DP	12.9%	0.0%	46.5%	27.7%	1.0%	3.0%	8.9%	101
Physics C Mechanics Electricity and Magnetism	0.0%	0.0%	73.0%	16.2%	0.0%	2.7%	8.1%	37
Physics 2	10.5%	0.0%	63.2%	21.1%	0.0%	5.3%	0.0%	19
Social Studies	**17.3%**	**0.1%**	**23.3%**	**36.7%**	**0.1%**	**16.3%**	**6.2%**	**23204**
AP Government Politics US NSL	18.9%	0.2%	21.7%	35.0%	0.0%	17.4%	6.8%	6723
AP World History	17.8%	0.1%	22.8%	36.1%	0.0%	17.1%	6.0%	4269
AP Psychology	19.0%	0.1%	22.6%	34.8%	0.0%	18.5%	5.1%	3504
AP US History	16.2%	0.2%	27.5%	34.3%	0.1%	14.1%	7.6%	2828
AP Microeconomics	8.7%	0.2%	32.3%	40.6%	0.1%	12.5%	5.7%	1324
AP Macroeconomics	9.1%	0.2%	31.9%	41.1%	0.2%	12.1%	5.5%	1277
AP Government Politics US NSL BX	19.7%	0.0%	24.3%	27.0%	0.1%	22.8%	6.0%	1109
AP Human Geography	12.7%	0.0%	14.3%	52.6%	0.0%	15.1%	5.3%	1109
AP Government Politics Comparative	5.6%	0.0%	20.6%	59.7%	0.0%	8.2%	5.9%	461
AP African American Studies	69.6%	0.3%	2.5%	11.7%	0.0%	8.6%	7.4%	326
AP European History	6.6%	0.0%	16.4%	62.4%	0.0%	10.6%	4.0%	274

Summary of AP Courses Taken by Race, Spring 2025 Continued (Highlighted by Subject Area) (Continued)

Course	African American	American Indian/ Alaskan Native	Asian	White	Native Hawaiian/ Pacific Islander	Hispanic	Multi-Racial	Total # Enrollments
Total MCPS High School Population	**21.9%**	**<1%**	**14.0%**	**24.4%**	**<1%**	**34.8%**	**0.3%**	**52,277**
Technology Education	**18.9%**	**0.2%**	**30.2%**	**30.4%**	**0.1%**	**14.2%**	**6.1%**	**3929**
AP Computer Science Principles TE	18.1%	0.2%	28.2%	32.2%	0.1%	14.9%	6.3%	2929
AP Computer Science JAVA	25.6%	0.2%	33.4%	24.5%	0.0%	10.9%	5.5%	587
AP Computer Science JAVA TE	12.5%	0.0%	48.7%	27.2%	0.0%	5.7%	6.0%	265
AP Computer Science Principles PLTW	4.7%	0.0%	25.6%	44.2%	0.0%	14.0%	11.6%	43
AP Macroeconomics BMF	20.5%	0.0%	20.5%	17.9%	0.0%	38.5%	2.6%	39
AP Microeconomics BMF	20.5%	0.0%	20.5%	17.9%	0.0%	38.5%	2.6%	39
AP Computer Science Principles Swift	37.0%	3.7%	22.2%	14.8%	3.7%	14.8%	3.7%	27
World Language	**7.3%**	**0.2%**	**11.5%**	**19.1%**	**0.0%**	**58.7%**	**3.2%**	**1572**
AP Spanish LC	3.8%	0.3%	8.6%	14.0%	0.0%	71.3%	2.2%	1145
AP French LC	32.4%	0.0%	8.3%	41.7%	0.0%	9.3%	8.3%	216
AP Spanish Literature	1.7%	0.0%	5.0%	21.5%	0.0%	69.4%	2.5%	121
AP Chinese LC	0.0%	0.0%	86.4%	10.2%	0.0%	1.7%	1.7%	59
AP Latin	0.0%	0.0%	0.0%	83.3%	0.0%	8.3%	8.3%	12
AP Italian LC	0.0%	0.0%	10.0%	70.0%	0.0%	10.0%	10.0%	10
AP Japanese LC	0.0%	0.0%	66.7%	11.1%	0.0%	0.0%	22.2%	9
Other	**12.1%**	**0.0%**	**38.1%**	**36.1%**	**0.0%**	**6.9%**	**6.9%**	**685**
AP Seminar	14.2%	0.0%	38.9%	33.2%	0.0%	7.2%	6.5%	416
AP Research	8.9%	0.0%	36.8%	40.5%	0.0%	6.3%	7.4%	269
TOTAL ALL AP Courses	**16.4%**	**0.2%**	**25.6%**	**35.3%**	**0.1%**	**16.6%**	**6.0%**	**100%**

Chapter 7. Findings and Recommendations

This chapter provides an overview of OLO's findings and recommended discussion issues for the County Council and Montgomery County Public Schools (MCPS) administration. **It is important to note that the Council requested OLO put together an inventory of all courses available in MCPS schools. While the following findings do not include this inventory, an inventory of all courses available in all middle and high schools (listed by FARMS rate) is available in the Appendix.**

A. Findings

This section provides an overview of OLO's findings on course availability across MCPS middle and high schools.

Finding #1: MCPS is currently completing multiple studies around school boundaries, course/program offerings, and school curriculum.

Montgomery County Public Schools are currently undertaking numerous studies and reviews concerning school offerings. MCPS is conducting the studies together – as MCPS reports that these studies are "inextricably linked." The studies include:

- A districtwide boundary study as a result of overcrowding and the opening/expanding of several high schools including the opening of Crown High School, expansion of Damascus High School, and the reopening Charles W. Woodward High School.
- A districtwide analysis of academic programs available to students to ensure equity and accessibility for all students to all programs. The recommendation would replace the district's current model with a plan that divides the district high schools into six regions with four or five high schools in each region.
- The Strong Local Schools program which aims to strengthen local schools in addition to special programs. The goals of the program are to (1) reduce inconsistencies in curriculum implementation; (2) address inconsistencies in preparation, placement practices, and access to advanced academic and elective opportunities; (3) create a transparent data system to monitor student progress and inform targeted supports; and (4) ensure the successful implementation of state-driven changes to policy, curriculum, and course pathways.

As of the November 20th, 2025 School Board Meeting, MCPS Superintendent is planning on presenting a recommendation for both a boundary study and programming changes in February 2026, and the School Board will vote on the recommendations in March 2026. *Because information on these studies is consistently changing, OLO recommends for the most current information available, go to relevant MCPS websites with updated information.*[85]

[85] https://www.montgomeryschoolsmd.org/departments/facilities/boundary-study/ and https://www.montgomeryschoolsmd.org/curriculum/academic-programs-analysis/

Finding #2: MCPS does not have a formal written policy for the selection of courses available at individual schools. The process used to select courses available to students is primarily the choice and responsibility of the individual schools, with schools varying in how courses offered are selected.

Most MCPS schools offer the same "core" classes for subjects such as English, math, social studies, science, and health/physical education. However, for elective courses, courses within those "core" subjects but not the typical pathway, or courses within other "core" subjects (fine arts, CTE, etc.), individual schools are responsible for the selection of available courses in its schools.

MCPS staff report that the primary driver for the selection of courses in a school is student interest. Schools use different methods to gather and gauge student interest in a course – some schools conduct surveys of the student body, but for the most part, students and/or teachers lead advocacy efforts on their own. Ultimately, it is the decision of the principal whether a course is offered in a particular school. However, there are some basic requirements for offering a new course in a school:

- Must have a teacher with required qualifications/skills to teach the course;
- Must have enough enrollment/interest – there is no standard for number of students required but MCPS often aims for 28-32 students per class; and
- The course must not be a restricted course unless it is being offered in a restricted program (i.e. IB courses can be offered only to students in IB programs).

If a school would like to add a course to its offerings, there are two ways to accomplish it. The principal will work with central administration to determine whether the course is already in MCPS' course "catalog." This catalog is a central database of all courses that MCPS has approved to be taught (and typically other schools already offer the course). If the course is already in the catalog, it is relatively easy to have it approved by central administrators to be offered in the school. If the course is not already in the catalog, the principal (and/or other school staff) works with central administrators to get approval.

School Catalogs. There are two types of school catalogs for MCPS – one for all schools (completed by central administration and considered the official course catalog) and individual school catalogs (not for all schools). MCPS staff report that not all schools provide students with a specific school course catalog but rather instruct students to use the MCPS central catalog.

- The central administration "official" MCPS school catalog provides a general overview of currently approved courses offered in MCPS middle and high schools. However, not all schools offer all courses listed in the catalog.
- Individual schools may also create their own school course catalog but are not required to. Schools will often take the central catalog and supplement it – the school will remove classes it does not offer and add courses it does that are not in the central catalog.

OLO found that 22 high schools and ten middle schools had course catalogs online. However, several of these were not up to date and several did not align with the MCPS central catalog or with data MCPS shared with OLO on course availability in individual schools. MCPS staff further stated that there is currently no approval process for individual school catalogs by central administration. MCPS conducted an internal study and found inconsistencies across catalogs and websites on what courses are available.

Finding #3: OLO identified over 1,300 courses in the MCPS course "catalog." This includes over 1,000 courses in high schools, 200 courses in middle schools, and 72 courses available in both middle and high school. The subject with the most overall courses was Art.

The following table summarizes the total number of courses available in the MCPS course "catalog" – courses that have been approved by central administration to offer in schools. Some of these courses may not be offered in any MCPS school. Art and World Languages have the largest numbers of courses in the catalog.

Subject/ Content Area	High Schools Courses (Available 9th-12th Grades)	Both High School and Middle Schools Courses (Available in 6th-12th Grade)	Middle Schools Courses (Available in 6th-8th Grade)	Total
Agriculture, Environmental and Natural Resources (AGB)	19	1	3	23
Arts, Media and Communications (AMC)	22	2	4	28
Art (ART)	153	4	58	215
Health Professions and Biosciences (BHP)	25			25
Business Management and Finance (BMF)	38	1		39
Consumer Services, Hospitality, and Tourism (CHT)	21		1	22
Construction (CON)	68			68
Education (EDU)	24		4	28
English (ENG)	83	2	31	116
Engineering (ENR)	26		16	42
Health and Physical Education (HPE)	37		6	43
Information Technology (ITC)	64	2	17	83
Junior ROTC (JRO)	9			9
Math (MAT)	49	20	12	81
Law, Government, Public Safety and Administration (PGS)	24			24
Science (SCI)	98	4	17	119
Social Studies (SOC)	106	1	19	126
Technology Education (TEC)	13	4	3	20
Transportation (TRN)	28			28
Work Based Learning (WBL)	12	1	1	14
World Languages (WGL)	134	30	8	172
TOTAL	1,053	72	200	1,325

*Because it was not the focus of this report, OLO did not include EML and ALO courses in this table

Finding #4: MCPS high schools offered an average of 201 courses across all subject areas. Blair offers the greatest number of courses (291) and Sherwood the least (164). Fine Arts courses account for the most courses by subject area.

The table on the next page summarizes the number of courses available by high school and by subject area. For most subject areas, there is a wide range of courses available by school (highlighted in the table). Some highlights from the chart include:

- Montgomery Blair, which has a significant number of special programs, had the greatest number of overall courses and also had the most math, science, fine arts, and elective courses;
- CTE courses had the biggest range of availability between the number of courses by school - nine at Richard Montgomery and 55 at Seneca Valley; and
- Fine Arts courses, on average, were the most common type of course in high schools followed by elective courses.

For context on course availability, the following table provides information on the graduation requirements for MCPS students.

Subject	Credits Required
Computer Science, Engineering or Technology Education (TE)	**ONE** credit designated TE, includes the study of computers and algorithmic processes or the application of knowledge, tools, and skills to solve practical problems
English	**FOUR** credits of organized instruction in comprehension of literary and informational texts, writing, speaking and listening, language, and literacy
Fine Arts	**ONE** credit in dance, media arts, music, theatre, or visual art, or a combination
Health Education	**ONE** credit, Honors Health Education A/B
Mathematics	**FOUR** credits, one including algebra and geometry STATE REQUIREMENT: Students graduating in 2018 and later must be enrolled in a math course in each year of high school
Physical Education	**ONE** credit
Science	**THREE** Next Generation Science Standards (NGSS) credits, including one life science credit aligned to the Life Science Maryland Integrated Science Assessment (MISA), one physical science credit, and one credit in Earth/space science or an NGSS course with the topics of Earth/space science integrated
Social Studies	**THREE** credits including one U.S. History credit, one World History credit, and one National, State, and Local Government credit aligned with the MCA for government
World Languages or Program of Studies and Electives	**TWO** credits of the same world language and **TWO** credits in elective courses OR complete a state-approved career and technical education (CTE) program of study

Number of Courses by Subject Area for MCPS High Schools (Largest and Smallest Values Highlighted)

	Enrollment	English	Math	Science	Social Studies	World Languages	HPE	Fine Arts	CTE	Reg Tech Ed	Elective	Total
Albert Einstein	2,012	16	15	14	8	29	9	49	27	4	34	205
Bethesda-Chevy Chase	2,335	13	22	21	13	41	9	44	23	3	44	233
Clarksburg	2,251	13	18	17	12	21	10	33	26	5	34	189
Col. Zadok Magruder	1,686	15	18	19	11	20	10	29	52	4	28	206
Damascus	1,414	12	14	16	7	13	9	31	26	3	23	154
Gaithersburg	2,436	13	19	18	11	18	12	34	40	4	26	195
James Hubert Blake	1,784	12	16	12	11	18	9	53	24	5	32	192
John F. Kennedy	1,827	23	23	19	12	22	11	36	34	4	32	216
Montgomery Blair	3,204	12	29	40	8	27	12	56	27	3	77	291
Northwest	2,484	11	18	13	8	17	9	38	24	5	39	182
Northwood	1,796	15	19	16	11	18	8	42	32	4	29	194
Paint Branch	2,135	13	17	19	8	19	10	25	50	4	30	195
Poolesville	1,309	15	24	32	11	11	2	21	15	5	38	174
Quince Orchard	2,154	16	19	17	10	23	10	44	32	4	30	205
Richard Montgomery	2,390	22	26	26	12	37	9	42	9	6	41	230
Rockville	1,516	17	19	19	13	26	10	26	20	5	33	188
Seneca Valley	2,239	17	23	16	13	24	9	45	55	3	43	248
Sherwood	1,721	13	16	15	7	10	10	35	29	5	24	164
Springbrook	1,838	17	19	22	10	27	9	30	35	4	32	205
Thomas S. Wootton	1,911	12	18	16	7	24	10	34	18	2	32	173
Walt Whitman	2,018	10	16	18	9	38	8	36	21	3	35	194
Walter Johnson	2,942	15	19	19	12	30	9	47	22	6	37	216
Watkins Mill	1,715	16	22	18	12	25	8	25	23	4	41	194
Wheaton	2,599	12	21	16	11	21	9	33	25	4	32	184
Winston Churchill	2,234	16	20	18	13	21	8	45	12	5	36	194
Average	**2,078**	**15**	**20**	**19**	**10**	**23**	**9**	**37**	**28**	**4**	**35**	**201**

It should be noted that a course in a specific subject area may meet the graduation requirement for that subject, may not meet the requirement, or may meet multiple graduation requirements (but can only count toward one). See Appendix for specific graduation requirements.

FINDING #5: MCPS offers 59 AP courses across eight subject areas (including two courses identified as "non-specific subject" courses). In general, OLO found the high schools with the fewest AP courses typically had an IB program in the school.

In the spring of 2025, MCPS offered 59 AP courses with enrollments with science, social studies, and art accounting for the greatest number of AP courses. *OLO acknowledges that the number of IB courses at any given school might have an impact on the number of AP courses also available at that school. Therefore, the following tables on AP courses available also include IB courses for context.*

Subject Area	Number of AP Courses	Number of IB Courses
Art (ART)	12	9
Business, Management and Finance (BMF)	2	2
English (ENG)	3	10
Technology (ITC & TEC)	5	5*
Math (MAT)	4	15
Non-Specific Subject (NSS)	2	NA
Science (SCI)	13	17
Social Studies (SOC)	11	14
World Languages (WGL)	7	23
Total	**59**	**95**

*Includes ITC and ITR courses

The number of AP courses by high school varied widely. The average number of AP exams offered at all high schools was 26, with Walter Johnson having the most available (39) and Seneca Valley the least (10). OLO found that the high schools with the fewest AP courses typically had an IB program in the school.

Number of AP Courses by School, Listed Greatest to Least

School Without IB Program	Number of AP Courses Offered	Schools With IB Program	Number of AP Courses Offered	Number of IB Courses Offered
Walter Johnson	39	Bethesda-Chevy Chase	27	38
Winston Churchill	37	Richard Montgomery	24	45
Thomas S. Wootton	35	Springbrook	23	41
Walt Whitman	35	Rockville	21	30
Montgomery Blair	34	Albert Einstein	19	37
Quince Orchard	32	John F. Kennedy	12	56
Clarksburg	31	Watkins Mill	11	50
Northwest	31	Seneca Valley	10	45
Poolesville	31			
Col. Zadok Magruder	27			
Wheaton	27			
James Hubert Blake	26			
Damascus	25			
Gaithersburg	25			
Paint Branch	23			
Northwood	22			
Sherwood	22			

Finding #6: "Elective" middle courses offered across MCPS schools varies from 50 courses at Silver Spring Middle School to 17 courses at John Poole Middle School.

As stated earlier, OLO found that for "core" middle school courses (English, math, science, social studies, and health/PE), all MCPS middle schools offer the same courses in various forms (i.e. magnet science courses instead of general science courses). OLO attempted to identify "elective" courses - for middle school that includes anything other than "core" subjects listed above in middle schools. OLO found schools offer a variety of courses and vary on the number of courses offered by school – ranging from 17 elective courses at John Poole to 53 elective courses at Silver Spring International. These "elective" courses in middle school do not fulfill the elective graduation requirement but may meet other graduation requirements, include Regular Technology Education, World Language, or Fine Arts. *It is important to note that elective courses in middle schools may be for the full year, one semester, or one quarter – this table does not distinguish between them.*

Middle School	Number Electives	Middle School	Number Electives
Silver Spring International	50	Silver Creek	30
A. Mario Loiederman	49	Benjamin Banneker	29
Parkland	47	Cabin John	29
Julius West	43	Herbert Hoover	29
Odessa Shannon	41	Newport Mill	29
Argyle	40	Redland	29
Takoma Park	40	Sligo	29
Thomas W. Pyle	40	Westland	28
Gaithersburg	38	White Oak	28
Robert Frost	38	Briggs Chaney	27
Tilden	36	Montgomery Village	27
Forest Oak	35	North Bethesda	27
Kingsview	35	Roberto W Clemente	27
Earle B. Wood	34	Rocky Hill	27
Hallie Wells	34	Eastern	26
John T. Baker	32	Rosa Parks	26
Lakelands Park	32	Shady Grove	26
Ridgeview	32	William H. Farquhar	25
Francis Scott Key	31	Dr. Martin Luther King Jr.	22
Neelsville	30	John Poole	17

Finding #7: Overall, OLO found that many "core" courses are found in all middle and high schools, particularly in English, math, social studies, science and health/physical education are available at all schools.

There are many pathways that students can take through middle and high school, including multiple pathways to meet all graduation requirements. However, there are course pathways in multiple subjects (English, math, science, social studies, and health/physical education) that are most commonly enrolled in by students. These pathways meet the specific graduation requirements in subject areas (i.e. Algebra I required for math, Chemistry required for science, etc.). Overall, OLO found that almost all schools across MCPS offer these "core" and most commonly enrolled courses:

Middle School

- All 40 schools have Advanced English for Grade 6, Advanced English for Grade 7, and Advanced English for Grade 8.
- All 40 MCPS middle schools offer the same courses for Health and Physical Education.

- All 40 schools have *Investigations in Physical Science* for 8th grade students; 39 schools have *Life Science* for 7th grade students and *Investigations in Earth Science* for 6th grade students (exception is Parkland).
- Two course pathways in social studies are available at most schools: general curriculum courses in each grade (at least 75% of schools) or accelerated/enriched courses (at least 93% of schools).
- Several math courses are available at at least 38 middle schools including: Accelerated Math 6 Plus, Accelerated Math 7 Plus, Grade 8 Math, Algebra 1, and Honors Geometry.
- Spanish is offered at all middle schools, French is offered at 75% of schools, and Chinese is offered at seven schools.

High School

- All schools offer Honors English 9A/B, Honors English 10A/B, Honors English 11A/B, and Honors English 12A/B.
- Many math courses are available at most schools: Algebra 1, Honors Geometry, Honors Algebra 2, Financial Mathematics, and Honors Statistics (25 schools); Algebra 2 (24 schools); Precalculus (22 schools); and Geometry and Calculus with Applications (21 schools).
- All schools offer Honors Biology and Honors Chemistry, with 24 schools offering Honors Physics (courses meet specific science requirements).
- All schools offer Honors US History, Honors National, State and Local Government, and Honors Modern World History (courses meet specific social studies requirements).
- All schools offer a Spanish language pathway and 24 schools offer French. Other languages are less frequently offered.
- All schools offer Honors Health Education A/B and 24 schools offer Basketball, Soccer, and Weight Training.

Finding #8: In general, (1) elective courses, (2) courses in "core" subjects (refer to Finding #7) not part of the most common pathway and (3) courses that meet Fine Arts, CTE, or TE graduation credits available at schools are often related to the special programs available at a specific school.

As stated earlier, OLO found that most courses in the "standard" pathway for English, math, science, social studies and health/physical education are available at all middle and high schools. However, OLO found that the availability of courses outside of these "core" courses (including (1) courses designated as elective, (2) courses within those subject areas but not in the most common pathway (i.e. Environmental Science or African American History), or (3) courses that meet the Fine Arts, CTE and TE graduation requirement) is generally related the special programs at the individual schools. For example, Loiderman Middle School has significantly more fine arts courses because of its Magnet School for the Creative and Performing Arts or high schools with an Academy of Finance (Einstein, Magruder, Northwest and Paint Branch) have more business, management, and finance (BMF) courses than other high schools. *For a full summary of the programs available at each school, see Appendix.*

Finding #9: MCPS currently offers 37 courses to middle school students that meet a high school requirement. Most of these courses are in World Languages.

OLO asked MCPS to identify courses available to middle school students that can be used towards the completion of an MCPS graduation requirement. MCPS identified 68 courses available to middle schoolers that can fulfill a requirement within their total course catalog. Of these courses, 37 are currently being offered, summarized in the table below. By far, most high school courses available to middle school students that meet a graduation requirement are World Languages.

Graduation Requirement	Course Name	Number of Middle Schools Offering Course
Math		
	Algebra 1A/B	40
	Honors Algebra 2A/B	3
	Honors Geometry A/B	38
	Magnet Geometry A/B	2
Fine Arts		
	Dance Fine Art A/B	1
	Foundation of Art and Culture A/B	1
	Concert Band A/B	1
	Concert Orchestra A/B	1
Technology Education		
	Foundations Computer Science TE A/B	27
	Introduction to Engineering Design A/B	21
	Foundations of Engineering and Technology A/B	5
World Languages		
	Spanish 1A/B	39
	Spanish 2A/B	39
	French 2A/B	35
	French 1A/B	30
	Honors Spanish 3A/B	29
	MS FY Spanish 1A/B	19
	Honors French 3A/B	19
	Spanish For Spanish 1A/B	18
	MS FY French 1A/B	15
	Spanish For Spanish 2A/B	14
	Spanish Literacy 1A/B	13
	Spanish Language Immersion 1A/B	7
	Chinese 2A/B	6
	Spanish Language Immersion 2A/B	6
	Chinese 1A/B	4
	MS FY Chinese 1A/B	3
	Spanish Language Immersion 3A/B	3
	Honors Chinese 3A/B	2
	French 3A/B	2
	French Language Immersion 1A/B	2
	French Language Immersion 2A/B	2
	French Language Immersion 3A/B	2
	Chinese Language Immersion 1A/B	1
	Spanish 3A/B	1
Other		
NGSS Physical Science NGSS Earth and Space Systems NGSS Science	Honors Physics A/B	1
Elective	Astronomy A/B	1

Finding #10: As of October 2025, there were 171 middle school students across MCPS who attend a high school for one or more courses.[86]

Some middle school students require a high school level course that is not provided in their home middle school and are able to attend a local high school. Typically, these courses are taken first period, after which the student returns to his/her/their middle school. Transportation is provided for these courses.

The following data is for MCPS students as of October 2025 - MCPS reports there were 171 middle school students taking a course at a local high school (some students are taking more than one course).

- There are five math courses, seven world language courses, and one other course (Naval Science) being taken in high schools by middle school students.
- Honors Algebra 2A/B, Honors French 2A/B, and French 2A/B account for 57% of all courses that middle school students take at a high school.
- Winston Churchill High School has the highest number of middle school students attending.

Course	Einstein	Clarksburg	Magruder	Gaithersburg	Blair	Northwest	Paint Branch	Poolesville	RM	Rockville	Seneca Valley	Sherwood	Springbrook	Wheaton	Churchill	Total
	Number of Students Enrolled															
Math																
Algebra 2A/B		2														2
Honors Algebra 2A/B		1			3	10		1	3	1	3	3			15	40
Honors Precalculus A/B									1						2	3
IB An/App Functions A/B									2							2
Magnet Functions A/B					2											2
Total Math		*3*			*5*	*10*		*1*	*6*	*1*	*3*	*3*			*17*	*49*
World Languages																
French 2A/B		16				1		1								18
Honors Chinese 3A/B															10	10
Honors French 3A/B			1	8	2					2		7			13	33
Japanese 1A/B	6															6
Honors Spanish 3A/B		3	2			4		4								13
Honors Spanish 4A/B						1						1	6			8
Spanish For Spanish 3A/B									7					1		8
Total World Languages	*6*	*19*	*3*	*8*	*2*	*6*		*5*	*7*	*2*		*8*	*6*	*1*	*23*	*96*
Other																
Naval Science 1A/B				5			27									32
Total	**6**	**22**	**3**	**13**	**7**	**16**	**27**	**6**	**13**	**3**	**3**	**11**	**6**	**1**	**40**	**177**

[86] The information provided in this finding is based on data given to OLO in late October 2025. MCPS report that as of January 5, 2026, there are 157 students.

OLO also compared the courses listed in the table for middle school students attending high school with the availability of these courses in middle schools.[87] OLO identified that there were five courses available in some middle schools while students in other middle schools had to attend the local high school. OLO found in schools that offered the courses, enrollment was significantly higher than schools that did not and had students attending high school.

	Number of Middle Schools Where Students Attend High School for Course	Average Enrollment in Middle Schools Where Students Have to Attend High School	Number of Middle Schools that Offer Course	Average Enrollment in Schools that Offer Course
Math				
Honors Algebra 2A/B	11	4	3	20
World Languages				
French 2A/B	4	5	34	40
Honors Chinese 3A/B	2	5	2	42
Honors French 3A/B	7	5	18	22
Honors Spanish 3A/B	4	3	27	64

Finding #11: Overall, for middle school courses, the number of courses available by subject matter was fairly similar across all schools, regardless of FARMS rate.

OLO found that middle school courses are generally available across most MCPS middle schools. All schools offered the same number of courses in "core" courses - English, math, health/physical education, science and social studies. OLO further found that the range of courses in all subject areas was relatively similar across all quartiles of FARMS rates.

OLO also looked at courses available in middle schools that meet any high school graduation requirement. Overall, OLO found that the number of courses available varies across all schools within each quartile – there are both low and high FARMS rates schools that have a high and low number of courses in middle school that meet a graduation requirement. The data also show:

- There were only two schools, Eastern and Loiderman, that do not offer a technology education course that meets the graduation requirement; and
- All middle schools offered at least three language courses that meet the world language requirement (two courses).

In addition to the courses listed in the table below, all middle schools offer Algebra I and Geometry (meet algebra and geometry requirements). Further, there are several courses at a very limited number of schools:

[87] It is important to note that OLO course availability data is from Spring 2025 and the middle school students attending high school courses is from Fall 2025. MCPS reports courses typically do not change significantly year to year.

- Honors Algebra II (meets math requirement) is available at three schools – Frost (12% FARMS), Takoma Park (35% FARMS) and White Oak (71% FARMS);
- Four arts courses (Dance Fine Art, Foundations of Art and Culture, Concert Band, and Concert Orchestra) that meet the Fine Arts requirement are only at Loiederman (62% FARMS); and
- Astronomy and Honors Physics (both meet science requirements) are available only at Parkland (66% FARMS).

Number of Middle School Courses that Meet High School Graduation Requirement by FARMS Rate, Spring 2025 (Highlighted by Quartile)

School	FARMS Rate	Information Technology	Chinese	French	Spanish	Total
Thomas W. Pyle	≤5.0%	2	2	3	3	**10**
Herbert Hoover	10.7%	1	4	3	3	**11**
Cabin John	12.1%	1	1	1	3	**6**
Robert Frost	12.4%	1	3	3	3	**10**
North Bethesda	12.5%	1	0	1	2	**4**
Westland	16.8%	2	0	3	6	**11**
John Poole	16.9%	2	0	0	3	**5**
Rosa Parks	17%	1	0	2	3	**6**
Hallie Wells	18.7%	2	1	1	2	**6**
Tilden	24.7%	2	1	2	3	**8**
Average		**2**	**1**	**2**	**3**	**8**
William H. Farquhar	28.3%	1	0	2	2	**5**
Silver Creek	31.5%	2	0	3	3	**8**
Lakelands Park	32.1%	2	0	1	4	**7**
John T. Baker	33.9%	1	0	0	2	**3**
Kingsview	34.7%	1	0	2	3	**6**
Takoma Park	35.3%	1	0	3	3	**7**
Julius West	38.6%	2	1	3	6	**12**
Ridgeview	41.3%	2	0	2	5	**9**
Earle B. Wood	47.1%	2	0	2	5	**9**
Silver Spring International	47.2%	1	0	3	8	**12**
Average		**2**	**0**	**2**	**4**	**8**
Sligo	47.6%	1	0	2	3	**6**
Rocky Hill	48.7%	2	0	1	4	**7**
Redland	53.6%	1	0	1	3	**5**
Roberto W Clemente	54.4%	2	0	3	4	**9**
Shady Grove	55.6%	1	0	1	5	**7**
Dr. Martin Luther King Jr.	58%	1	0	3	4	**8**
Gaithersburg	58.6%	1	0	3	7	**11**
Newport Mill	59.1%	1	0	1	6	**8**
Briggs Chaney	59.3%	1	0	3	3	**7**
Eastern	59.6%	0	0	2	5	**7**
Average		**1**	**0**	**2**	**4**	**8**
A. Mario Loiederman	62.4%	0	0	3	6	**9**
Parkland	66%	1	0	3	6	**10**
Neelsville	66.7%	2	0	2	4	**8**
Benjamin Banneker	68.2%	1	0	3	4	**8**
Argyle	68.5%	3	0	2	6	**11**
White Oak	71.2%	1	0	3	5	**9**
Forest Oak	72.5%	1	0	2	6	**9**
Montgomery Village	75%	1	0	3	5	**9**
Odessa Shannon	75%	1	0	2	8	**11**
Francis Scott Key	75.4%	1	0	3	3	**7**
Average		**1**	**0**	**3**	**5**	**9**

Finding #12: While there is significant variation school to school, overall, when comparing quartiles divided by FARMS rate, MCPS high schools offer a similar number of classes in almost all subject areas.

Overall, OLO found that schools vary significantly in the number of courses offered by subject area (see table below). OLO found that, within each FARMS quartile, courses were offered at similar rates – the schools with the lower rates of FARMS did not offer demonstrably more courses in any subject area. In particular, OLO found that:

- Almost all schools offer the same "core" courses for "core" subjects – English, math, science, social studies and health/physical education.
- The schools with the lowest FARMS rates, on average, offered fewer courses overall.
- Half of schools with the highest FARMS rates offered, on average, more than ten more CTE courses compared with lower FARM rate schools.
- Schools with the highest and lowest FARMS rates offered fewer art courses than schools in middle half of all schools.
- Schools with lower FARMS rates tend to offer more language pathway options. Nine of the twelve lowest FARMS rates schools offer at least two languages in addition to Spanish/French compared to one of the twelve highest FARMS schools.
- The highest FARMS rates school quartile had fewer art courses offered – an average of 30 courses compared to 35-40 for the other quartiles. Northwood is the exception in the highest FARMS rates schools with 43 art courses (aligned with multiple art-related academies).

Summary of Courses Available by Graduation Requirement Subject by FARMS Rate, Spring 2025 (Highlighted by Quartile)

Schools	FARMS Rate	Enrollment	English	Math	Science	Social Studies	World Languages	Health/ Physical Education	Fine Arts	CTE	Tech Ed	Elective	Total
Whitman	≤5.0	2,018	10	16	18	9	38	8	36	21	3	35	194
Churchill	9.7	2,234	16	20	18	13	21	8	45	12	5	36	194
Poolesville	10.8	1,309	15	24	32	11	11	2	21	15	5	38	174
Wootton	11.9	1,911	12	18	16	7	24	10	34	18	2	32	173
Walter Johnson	16.7	2,942	15	19	19	12	30	9	47	22	6	37	216
Sherwood	20.3	1,721	13	16	15	7	10	10	35	29	5	24	164
Average			***14***	***19***	***20***	***10***	***22***	***8***	***36***	***20***	***4***	***34***	***186***
BCC	22.5	2,335	13	22	21	13	41	9	44	23	3	44	233
RM	30.5	2,390	22	26	26	12	37	9	42	9	6	41	230
Damascus	30.6	1,414	12	14	16	7	13	9	31	26	3	23	154
Northwest	35.0	2,484	11	18	13	8	17	9	38	24	5	39	182
Clarksburg	36.4	2,251	13	18	17	12	21	10	33	26	5	34	189
Quince Orchard	36.5	2,154	16	19	17	10	23	10	44	32	4	30	205
Average			***15***	***20***	***18***	***10***	***25***	***9***	***39***	***23***	***4***	***35***	***199***
Magruder	44.0	1,686	15	18	19	11	20	10	29	52	4	28	206
Rockville	44.5	1,516	17	19	19	13	26	10	26	20	5	33	188
Blair	44.7	3,204	12	29	40	8	27	12	56	27	3	77	291
Einstein	47.1	2,012	16	15	14	8	29	9	49	27	4	34	205
Seneca Valley	49.9	2,239	17	23	16	13	24	9	45	55	3	43	248
Blake	54.9	1,784	12	16	12	11	18	9	53	24	5	32	192
Average			***15***	***20***	***20***	***11***	***24***	***10***	***43***	***34***	***4***	***41***	***222***
Paint Branch	56.8	2,135	13	17	19	8	19	10	25	50	4	30	195
Gaithersburg	57.6	2,436	13	19	18	11	18	12	34	40	4	26	195
Wheaton	58.3	2,599	12	21	16	11	21	9	33	25	4	32	184
Springbrook	61.0	1,838	17	19	22	10	27	9	30	35	4	32	205
Northwood	62.9	1,796	15	19	16	11	18	8	42	32	4	29	194
Watkins Mill	64.4	1,715	16	22	18	12	25	8	25	23	4	41	194
Kennedy	70.4	1,827	23	23	19	12	22	11	36	34	4	32	216
Average			***16***	***20***	***18***	***11***	***21***	***10***	***32***	***34***	***4***	***32***	***198***

Finding #13: High schools with lower FARMS rates offered more AP courses overall compared with high schools with higher FARMS rates. AP participation data also shows that, in general, African American and Hispanic students are underrepresented in AP participation in almost all subject areas.

Research shows that advanced course taking in high school benefits students both in the short and long term. However, enrollments in AP courses are disproportionately taken by White and Asian students. Even in high schools with similar levels of access to this coursework, Black, Latinx, and Indigenous students are often less likely to be enrolled in advanced courses.

MCPS provided OLO with information on AP course participation by school, race, and gender. This information is also available publicly on MCPS Dashboards. Overall, OLO found that in general:

- Schools with lower FARMS rates offered more AP courses than those with higher FARMS rates;
- Schools with lower FARMS rates offered more AP courses in art, science, social studies and world language;
- The number of AP courses in math, technology, and English were similar across schools with all levels of FARMS rates; and
- Schools with IB programs offered fewer AP courses than those without, but IB schools with low FARMS rates still offered more AP courses than IB schools with high FARMS rates.

MCPS data on the racial background of students who take AP courses shows the following:

- African American students are underrepresented in AP participation overall and in all subject areas, particularly in art and world language AP courses;
- Hispanic students are also underrepresented in AP participation overall and in all but one subject area (World Languages) and in particular science, technology and math;
- Asian students are overrepresented in AP participation overall and in all but one subject area (World Languages) and double their representation in math, science and technology AP participation; and
- White students are overrepresented in AP participation overall and in all but one subject area (World Languages) and in particular art, social studies, and math.

B. OLO Recommendation

The intention of this OLO report was to provide an inventory and analysis of the current course availability across MCPS middle and high schools. OLO has created a full inventory of all courses by school (organized by FARMS rate) in the Appendix of this report.

As stated in the beginning of this report, MCPS has completed simultaneous studies on school boundaries and high school programs, along with currently conducting an internal audit on curriculum and course availability. MCPS and the School Board have been discussing options going forward and plan on continuing these discussions in the new year. OLO hopes that this report can provide another source of information for all stakeholders during these conversations. The Council may wish to use this report during a discussion with MCPS about all of the studies completed.

While this report does not make recommendations on the availability of courses throughout MCPS, OLO has identified one issue that MCPS should address when decisions about boundaries and programs have been solidified – the utilization and uniformity of course catalogs. During the course of this report, OLO found that there is no consistency among school catalogs. The central MCPS catalog contains courses that may not be available in all schools. Individual school catalogs, if even available, are not uniform. OLO found that courses identified in individual school catalogs did not match up with what courses were actually offered. Further, MCPS staff reported that this can be a problem – without consistency, students and families may not be able to easily identify courses available to them.

This is further complicated by MCPS special programs – if a student is thinking about attending a school other than their home school for a specific program, having access to information on the course availability for all subjects at that school might be difficult. If MCPS decides to move forward with the six-region model, school catalogs become significantly more important. Students should have the opportunity to review all courses available at any school they are thinking about attending, not just the courses in whichever program they are enrolling in.

Therefore, OLO suggests that no matter what decisions are made about programs and curriculum in the coming months and years, MCPS provide schools catalogs that are comprehensive, uniform, and updated annually to ensure that students and families have all the information readily available to select schools, pathways, and courses.

Chapter 8. Agency Comments

The Office of Legislative Oversight (OLO) shared the draft of this report with staff from Montgomery County Public Schools (MCPS). OLO appreciates the time taken by MCPS staff to review the draft report and to provide technical feedback. This final report incorporates technical corrections and feedback received from staff. **Written comments from the Superintendent are forthcoming and will be available online along with the report once we receive it.**

OLO Report 2026-2

High School and Middle School Course Availability in Montgomery County Public Schools (MCPS)

Appendix

A. List of MCPS High School Programs by School

B. Chart of Career and Technical Education (CTE) Programs by School

C. List of Courses Available to Middle School Students that Meet a Graduation Requirement

D. Inventory of Montgomery County Public Schools High and Middle Schools Courses

E. Summary of Enrollment, Percent of Students Enrolled and Average Enrollment by Course

F. List of MCPS Courses that Can be Repeated for Credit

G. List of MCPS AP Courses by High School, Spring 2025

H. Availability of Elective Courses for Courses that are Available at Least Half of MCPS High Schools (at least 12 schools) by FARMS Rate, Spring 2025

APPENDIX A: List of MCPS High School Programs by School

BCC HS

- Apprenticeship Maryland POS
- Child Development Associate (CDA) POS
- College/Career Research & Development (CCRD) POS
- Computer Science/Code.org POS
- Dual Enrollment (Jump Start)
- Fire Science and Rescue POS
- International Baccalaureate Diploma Programme
- Middle Years Program–Grades 9–10
- Multidisciplinary Educational Training and Support Program
- PLTW: Advanced Engineering POS

BLAIR HS

- Accounting and Finance POS
- Apprenticeship Maryland POS
- Business Management POS
- Child Development Associate (CDA) POS
- College/Career Research & Development (CCRD) POS
- Communication Arts Program (CAP)
- Computer Science/Code.org POS
- DCC Academy Programs: Entrepreneurship & Business Management
- DCC Academy Programs: Human Service Professions
- DCC Academy Programs: International Studies & Law
- DCC Academy Programs: Media, Music, and The Arts
- DCC Academy Programs: Science, Technology, Engineering & Math
- Dual Enrollment (Jump Start)
- Early Childhood Development POS
- Fire Science and Rescue POS
- Justice, Law, and Society POS
- Magnet—Science/Math/Computer Science
- Marketing POS
- Multidisciplinary Educational Training and Support Program

BLAKE HS

- AP (Advanced Placement) Capstone
- Apprenticeship Maryland POS
- Broadcast Media POS (Video Production)
- Business Management POS
- College/Career Research & Development (CCRD) POS
- Computer Science/Code.org POS
- Dual Enrollment (Jump Start)
- Fire Science and Rescue POS
- Interactive and Multimedia Technologies POS
- Marketing POS
- NEC Academies and Capstones: Business and Consumer Serv
- NEC Academies and Capstones: Science, Technology, Engineering
- NEC Signature Programs: Arts and Communication
- NEC Signature Programs: Humanities and Public Service
- Teacher Academy of Maryland POS

CHURCHILL HS

Academy Technology, Engineering and Math Signature Program
Apprenticeship Maryland POS
Broadcast Media Technician POS
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
Dual Enrollment (Jump Start)
Fire Science and Rescue POS

CLARKSBURG HS

Academy of Health Professions: Pharmacy Technician POS
Academy of Health Professions: Physical Rehabilitation POS
Advanced Placement Power Scholars (APPS)
Apprenticeship Maryland POS
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
Dual Enrollment (Jump Start)
Early Childhood Development POS
Child Development Associate (CDA) POS
Fire Science and Rescue POS
Network Operations POS
Pathways in Networking & Information Technology (P-TECH)
PLTW: Advanced Engineering POS

DAMASCUS HS

AP (Advanced Placement) Capstone
Apprenticeship Maryland POS
Automotive Technology MLR POS
Certified Professional Horticulturalist (CPH) POS
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
Dual Enrollment (Jump Start)
Early Childhood Development POS
Child Development Associate (CDA) POS
Fire Science and Rescue POS
IT Networking Academy (CISCO) POS
Professional Restaurant Management Culinary Arts (ACF) PO

Edison HS of Technology

Academy of Health Professions: Certified Clinical Medical Assistant
Academy of Health Professions: Certified Nursing Assistant
Autobody/Collision Repair NATEF POS
Automotive Technology MLR+ POS
Career Readiness Education Academy (CREA)
Carpentry POS
Construction Electricity POS
Cosmetology POS
Graphics Communication (Print ED) POS
Heating, Ventilation, and Air Conditioning (HVAC) POS
Hospitality and Tourism Management (HTM) POS
Law Enforcement and Leadership: Homeland Security POS
Masonry POS
Network Operations POS
Plumbing POS
Principles of Architecture and CAD Technology Design POS
Professional Restaurant Management Culinary Arts (ACF) PO

EINSTEIN HS

Academy of Finance POS
Apprenticeship Maryland POS
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
DCC Academy Programs: Finance, Careers, and Technology
DCC Academy Programs: Renaissance Academy for College Readiness
DCC Academy Programs: Teacher Academy of Maryland
DCC Academy Programs: Visual and Performing Arts
Dual Enrollment (Jump Start)
Fire Science and Rescue POS
Hospitality and Tourism Management (HTM) POS
International Baccalaureate Diploma Programme
Multidisciplinary Educational Training and Support Program
Teacher Academy of Maryland POS
Visual Arts Center (VAC)

GAITHERSBURG HS

Academy of Information Technology (NAF) - Web Design PO
Accounting and Finance POS
Apprenticeship Maryland POS
Automotive Collision Repair POS
Automotive Technology MLR POS
Broadcast Media POS (Video Production)
Business Management POS
Child Development Associate (CDA) POS
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
Cosmetology POS
Dual Enrollment (Jump Start)
Fire Science and Rescue POS
Marketing POS
Multidisciplinary Educational Training and Support Program
Naval Junior Reserve Officer Training Corps (NJROTC)
PLTW: Biomedical Science POS

KENNEDY HS

Academy of Health Professions: Certified Clinical Medical Assistant
Academy of Health Professions: Certified Nursing Assistant Physical Rehabilitation
Academy of Health Professions: Physical Rehabilitation POS
Apprenticeship Maryland POS
Broadcast Media POS (Video Production)
Business Management POS
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
DCC Academy Programs: Broadcast Journalism & Communications
DCC Academy Programs: Business Administration & Manage
DCC Academy Programs: Healthcare Professions
DCC Academy Programs: Teacher Academy of Maryland
Dual Enrollment (Jump Start)
Fire Science and Rescue POS
International Baccalaureate Diploma Programme (Regional Program)
Leadership Training Institute (LTI)
Naval Junior Reserve Officer Training Corps (NJROTC)
Teacher Academy of Maryland POS

MAGRUDER HS

Academy of Finance POS
Academy of Health Professions: Pharmacy Technician POS
Accounting and Finance POS
Apprenticeship Maryland POS
Army Junior Reserve Officers' Training Corps (AJROTC)
Aviation and Aerospace Program
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
Dual Enrollment (Jump Start)
Early Childhood Development POS
Child Development Associate (CDA) POS
Fire Science and Rescue POS
Hospitality and Tourism Management (HTM) POS
PLTW: Advanced Engineering POS
Pursuing Excellence in the Academic Curricula (PEAC Scholars)

NORTHWEST HS

Academy of Finance POS
Academy of Fine Arts
Accounting and Finance POS
Apprenticeship Maryland POS
Biotechnology POS
Child Development Associate (CDA) POS
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
Dual Enrollment - Montgomery College Middle College (MC2)
Dual Enrollment (Jump Start)
Early Child Development (ECD) POS
Fire Science and Rescue POS
Ulysses Signature Program

NORTHWOOD HS

Apprenticeship Maryland POS
Broadcast Media POS (Video Production)
Business Management POS
Child Development Associate (CDA) POS
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
Curriculum for Agricultural Science Education (CASE) POS
DCC Academy Programs: Finance, Accounting, Marketing & Education
DCC Academy Programs: Humanities, Arts, and Media (HAM)
DCC Academy Programs: Musical Theatre & Dance
DCC Academy Programs: Politics, Advocacy, & Law (PAL)
DCC Academy Programs: Technology, Environmental, and System Sciences
Dual Enrollment - Montgomery College Middle College (MC2)
Dual Enrollment (Jump Start)
Early Child Development (ECD) POS
Fire Science and Rescue POS
Justice, Law, and Society POS
Marketing POS
Multidisciplinary Educational Training and Support Program (METS)

PAINT BRANCH HS

- Academy of Finance POS
- Academy of Health Professions: Certified Clinical Medical Assistant
- Academy of Health Professions: Certified Nursing Assistant
- Apprenticeship Maryland POS
- Broadcast Media POS (Video Production)
- Child Development Associate (CDA) POS
- College/Career Research & Development (CCRD) POS
- Computer Science/Code.org POS
- Dual Enrollment (Jump Start)
- Early Child Development POS
- Fire Science and Rescue POS
- Naval Junior Reserve Officer Training Corps (NJROTC)
- NEC Signature Programs: Academy of Media
- NEC Signature Programs: Academy of Science
- PLTW: Advanced Engineering POS
- Professional Restaurant Management Culinary Arts (ACF) POS

POOLESVILLE HS

- Apprenticeship Maryland POS
- College/Career Research & Development (CCRD) POS
- Computer Science/Code.org POS
- Dual Enrollment (Jump Start)
- Fire Science and Rescue POS
- Independent Studies House
- Magnet—Global Ecology
- Magnet—Humanities
- Magnet—Science/Math/Computer Science
- PLTW: Advanced Engineering POS

QUINCE ORCHARD HS

- Apprenticeship Maryland POS
- Broadcast Media POS (Video Production)
- Child Development Associate (CDA) POS
- College/Career Research & Development (CCRD) POS
- Computer Science/Code.org POS
- Dual Enrollment (Jump Start)
- Fine Arts and Humanities Signature Program
- Fire Science and Rescue POS
- Interactive and Multimedia Technologies POS
- IT Networking Academy (CISCO) POS
- Justice, Law, and Society POS
- Multidisciplinary Educational Training and Support Program (METS)
- PLTW: Advanced Engineering POS

Richard Montgomery HS

Apprenticeship Maryland POS
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
Dual Enrollment (Jump Start)
Fire Science and Rescue POS
Magnet—International Baccalaureate Diploma Programme
Middle Years Program–Grades 9–10
Multidisciplinary Educational Training and Support Program (METS)

ROCKVILLE HS

Apprenticeship Maryland POS
Child Development Associate (CDA) POS
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
Dual Enrollment (Jump Start)
Fire Science and Rescue POS
Hospitality and Tourism Management (HTM) POS
International Baccalaureate Career Programme
International Baccalaureate Diploma Programme
Multidisciplinary Educational Training and Support Program (METS)
PLTW: Advanced Engineering POS
PLTW: Biomedical Science POS

SENECA VALLEY HS

Academy of Health Professions: Certified Clinical Medical Assistant
Academy of Health Professions: Pharmacy Technician POS
Apprenticeship Maryland POS
Automotive Technology MLR POS
Career Readiness Education Academy (CREA)
Carpentry POS
Child Development Associate (CDA) POS
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
Construction Design and Management (CDM) POS
Construction Electricity POS
Dual Enrollment (Jump Start)
Fire Science and Rescue POS
Heating, Ventilation, and Air Conditioning (HVAC) POS
Hospitality and Tourism Management (HTMP) POS
Information Technology & Cybersecurity
International Baccalaureate Career Programme
International Baccalaureate Diploma Programme
Law Enforcement and Leadership: Homeland Security POS
Masonry POS
Middle Years Programme (MYP) Grades 9-10
Multidisciplinary Educational Training and Support Program (METS)
Naval Junior Reserve Officer Training Corps (NJROTC)
Network Operations POS
PLTW: Advanced Engineering POS
Plumbing POS

SHERWOOD HS

Academy of Health Professions: Certified Nursing Assistant
Apprenticeship Maryland POS
Business Management POS
Child Development Associate (CDA) POS
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
Curriculum for Agricultural Science Education (CASE) POS
Dual Enrollment (Jump Start)
Fire Science and Rescue POS
Hospitality Management POS
PLTW: Advanced Engineering POS

SPRINGBROOK HS

Academy of Information Technology (NAF) - Web Design PO
Apprenticeship Maryland POS
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
Dual Enrollment (Jump Start)
Early Child Development POS
Fire Science and Rescue POS
Hospitality and Tourism Management (HTM) POS
International Baccalaureate Diploma Programme (Regional Program)
IT Networking Academy (CISCO) POS
Justice, Law, and Society POS
Middle Years Program–Grades 9–10
Multidisciplinary Educational Training and Support Program (METS)
NEC Signature Programs: Academy of Information Technology
NEC Signature Programs: Justice, Law, and Society
PLTW: Advanced Engineering POS
Teaching Academy of Maryland (TAM)

WALTER JOHNSON HS

APEX Scholars Signature
Apprenticeship Maryland POS
Child Development Associate (CDA) POS
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
Dual Enrollment (Jump Start)
Early Child Development POS
Fire Science and Rescue POS
Hospitality and Tourism Management (HTMP) POS
Mobile Applications and Software Development (Apple)

WATKINS MILL HS

Academy of Health Professions: Certified Nursing Assistant
Apprenticeship Maryland POS
Child Development Associate (CDA) POS
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
Dual Enrollment (Jump Start)
Early Child Development POS
Fire Science and Rescue POS
Hospitality and Tourism Management (HTMP) POS
International Baccalaureate Career Programme
International Baccalaureate Career Programme (11-12)
International Baccalaureate Diploma Programme
Middle Years Program–Grades 9–10
Mobile Applications and Software Development (Apple)
Multidisciplinary Educational Training and Support Program (METS)
PLTW: Advanced Engineering POS

WHEATON HS

Academy of Information Technology (NAF) - Web Design PO
Advanced Biomedical Application Program
Advanced Engineering Application Program
Apprenticeship Maryland POS
Child Development Associate (CDA) POS
Computer Science/Code.org POS
DCC Academy Programs: Global Studies Academy
DCC Academy Programs: Informational Technology (AOIT)
DCC Academy Programs: PLTW Bioscience (POS)
DCC Academy Programs: PLTW Engineering (POS)
Dual Enrollment (Jump Start)
Early Child Development POS
Fire Science and Rescue POS
Healthcare Professions
Hospitality and Tourism Management
Multidisciplinary Educational Training and Support Program (METS)

WHITMAN HS

Apprenticeship Maryland POS
Child Development Associate (CDA) POS
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
Dual Enrollment (Jump Start)
Fire Science and Rescue POS
Leadership Academy of Social Justice
Dual Enrollment (Jump Start)
PLTW: Advanced Engineering POS

WOOTTON HS

Academy of Information Technology (NAF) - Web Design PO
Apprenticeship Maryland POS
Child Development Associate (CDA) POS
College/Career Research & Development (CCRD) POS
Computer Science/Code.org POS
Early Child Development POS
Fire Science and Rescue POS
Humanities and Arts Signature Program
IT Networking Academy (CISCO) POS

APPENDIX B

Division of Teaching and Learning
Department College and Career Readiness

	Programs of Study	CIP Number	CURRENT SCHOOL LOCATIONS OF PROGRAMS OF STUDY FOR 2025–2026																									
			Bethesda-Chevy Chase	Montgomery Blair	James Hubert Blake	Winston Churchill	Clarksburg	Damascus	Thomas Edison	Albert Einstein	Gaithersburg	Walter Johnson	John F. Kennedy	Col. Zadok Magruder	Richard Montgomery	Northwest	Northwood	Paint Branch	Poolesville	Quince Orchard	R.I.C.A.	Rockville	Seneca Valley	Sherwood	Springbrook	Walt Whitman	Watkins Mill	Wheaton	Thomas S. Wootton
Arts, Media, and Communications																												
1	Broadcast Media	100290			•	•					•		•				•	•		•								
2	Graphics Communication (Print ED)	100350							•																			
3	Interactive Media Production	100150			•						•									•								
Business, Management and Finance																												
4	Academy of Finance	520850								•				•		•		•										
5	Accounting and Finance	520354		•							•			•		•												
6	Business Management	520251		•	•						•		•				•							•				
7	Marketing	521451		•	•						•						•											
Career Research and Development																												
8	Apprenticeship Maryland	860500	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
9	College/Career Research and Development	860000	•	•	•	•	•	•		•	•	•	•	•		•	•	•	•	•		•	•	•	•	•		•
Construction and Development																												
10	Carpentry	465200							•														•					
11	Construction Electricity	465300							•														•					
12	Heating, Ventilation, and Air Conditioning (HVAC)	475200							•														•					
13	Masonry	465100							•														•					
14	Plumbing	465500							•														•					
15	Construction Design and Management	151350																					•					
Consumer Services, Hospitality, and Tourism																												
16	Cosmetology	120450							•		•																	
17	Hospitality and Tourism Management (HTM)	520954							•	•		•		•								•	•		•		•		
18	Hospitality Management/ProStart	520955																						•				
19	Professional Restaurant Management	120550						•	•									•										
Environmental Sustainability and Agribusiness																												
20	Certified Professional Horticulturalist	010650						•																				
21	Curriculum for Agricultural Science Education (CASE)	010050															•							•				
Health and Biosciences																												
22	Academy of Health Professions: Certified Nursing Assistant	510050							•				•					•						•				
23	Academy of Health Professions: Pharmacy Technician	510051					•							•									•					
24	Academy of Health Professions: Certified Clinical Medical Assistant	510053							•				•					•					•				•	
25	Academy of Health Professions: Physical Rehabilitation	510054					•						•															
26	Academy of Health Professions: Allied Health Intern	510056					•		•				•	•				•					•	•			•	
27	Academy of Health Professions: Allied Health Dual Enrollment	510057					•		•				•	•				•					•	•			•	

Division of Teaching and Learning
Department College and Career Readiness

	Programs of Study	CIP Number	Bethesda-Chevy Chase	Montgomery Blair	James Hubert Blake	Winston Churchill	Clarksburg	Damascus	Thomas Edison	Albert Einstein	Gaithersburg	Walter Johnson	John F. Kennedy	Col. Zadok Magruder	Richard Montgomery	Northwest	Northwood	Paint Branch	Poolesville	Quince Orchard	R.I.C.A.	Rockville	Seneca Valley	Sherwood	Springbrook	Walt Whitman	Watkins Mill	Wheaton	Thomas S. Wootton
			CURRENT SCHOOL LOCATIONS OF PROGRAMS OF STUDY FOR 2025–2026																										
28	Academy of Health Professions: Biomedical Sciences/Health Professions	510000							•																			•	
29	Biomedical Sciences: Project Lead the Way (PLTW)	511150									•											•						•	
30	Biotechnology	261201														•													
Information Technology																													
31	Academy of Information Technology (AOIT) - Web Design	110190						•			•														•			•	•
32	Computer Science/Code.org	110190	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•
33	IT Networking Academy (CISCO)	110955						•			•									•					•		•		•
34	Mobile Application and Software Development (Apple)	110890										•															•		
35	Network Operations	110190					•		•														•						
36	Pathways in Networking & Information Technology (PTECH)	110970					•																						
Manufacturing and Engineering																													
37	Advanced Engineering Technology: Project Lead the Way	155000	•				•							•				•	•	•		•	•	•	•	•	•	•	
38	Principles of Architecture and CAD Technology Design	151390							•																				
Public Leadership (Human Resource Services)																													
39	Army Junior Reserve Officers Training Corps (JROTC)	280301												•															
40	Child Development Associate (CDA) Preschool	131209	•	•			•	•			•	•		•		•	•	•		•		•	•	•		•	•	•	•
41	Fire Science and Rescue	430250	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•
42	Law Enforcement: Homeland Security	430351							•														•						
43	Justice, Law and Society	430190		•													•			•					•				
44	Navy JROTC	280410									•		•					•					•						
45	Teacher Academy of Maryland	130150			•					•			•												•				
Transportation Technologies																													
46	Automotive Technology Maintenance and Light Repair (MLR)	470601						•			•												•						
47	Local Automotive Collision Repair	470602									•																		
48	Automotive Collision Repair - NATEF	470635							•																				
49	Automotive Technology Maintenance and Light Repair-Plus (MLR +)	470645							•																				
50	Aviation and Aerospace Program - Pilot	490101												•															
51	Aviation and Aerospace Program - Pilot Unmanned Aircraft System	490101												•															

APPENDIX C

List of Courses Available to Middle School Students that Meet a Graduation Requirement

(From the MCPS course "catalog" – may not be currently offered in any school)

How Courses Were Identified:

1. MCPS provided OLO with a list of graduation requirements met for all courses
2. Data was sorted by "type" – high school versus middle school
3. Courses identified as middle school were removed
4. Courses were then sorted by Grade Low and Grade High
5. Courses that did not bear credits were removed
6. Courses that were available for 6th through 8th grade were included in this list

Course ID	Course Title	Grade Low	Grade High	Graduation Requirement	# Middle Schools with Course
ART					
ART2000A	Dance Fine Art A/B	06	12	Fine Arts	1
ART2001A	Foundation of Art and Culture A/B	06	12	Fine Arts	1
ART2093A	Concert Band A/B	06	12	Fine Arts	1
ART2097A	Concert Orchestra A/B	06	12	Fine Arts	1
BMF					
BMF2000A	Software Applications Design A/B	06	12	Career Readiness CTE	None
ENR					
ENR2000A	Design Tech Solutions A/B	06	12	Elective	None
ENR2012	Robotics	06	12	Career Readiness CTE	None
ITC					
ITC2025A	Website Development A/B	06	12	Career Readiness CTE	None
ITC2083A	Found Computer Sci TE A/B	06	12	Technology Education	27

Course ID	Course Title	Grade Low	Grade High	Graduation Requirement	# Middle Schools with Course
MAT					
MAT2000A	Algebra 1A/B	06	12	Algebra	40
MAT2001A	Related Math A/B	06	12	Mathematics	None
MAT2003A	Geometry A/B	06	12	Geometry	None
MAT2004A	Hon Geometry A/B	06	12	Geometry	38
MAT2008A	Mag Geometry A/B	06	12	Geometry	2
MAT2011A	Algebra 2A/B	06	12	Algebra	None
MAT2012A	Hon Algebra 2A/B	06	12	Algebra	3
MAT2013A	Algebra 2 Support A/B	06	12	Elective	None
MAT2015A	2YR Algebra 2A/B	06	12	Algebra	None
MAT2016C/D	2YR Algebra 2C	06	12	Algebra	None
MAT2018A	RMS Geometry A/B	06	12	Geometry	None
MAT2024A	MCPS PIB Geometry A/B	06	12	Geometry	None
MAT2026A	Math Appr to Prob Solving MAPS A/B Tier 2	06	12	Mathematics	None
MAT2030D	Mag Precalculus D	06	12	Algebra	None
SCI					
SCI2006A	Hon Physics A/B	08	12	NGSS Physical Science NGSS Earth and Space Systems NGSS Science	1
SCI2031A	GeoSciExp ResourPaleon A/B	06	12	Elective	None
SCI2068A	Astronomy A/B	06	12	Elective	1
SCI5085A	Astronomy with Physics A/B	06	12	NGSS Physical Science NGSS Earth and Space Systems NGSS Science	None
SOC					
SOC2028	Latin American History	07	12	Elective	None
TEC					
TEC2000A	Found Of Tech A/B	06	12	Technology Education	None
TEC2001A	Found Tech w Appl A/B	06	12	Elective	None
TEC2016A	Foundations of Engineering and Technology A/B	08	12	Technology Education	5
TEC2017A	Introduction to Engineering Design A/B	06	12	Technology Education	21

Course ID	Course Title	Grade Low	Grade High	Graduation Requirement	# Middle Schools with Course
WLG					
WLG1002A	MS FY Chinese 1A/B	06	07	World Languages	3
WLG1003A	MS FY French 1A/B	06	07	World Languages	15
WLG1004A	MS FY Japanese 1A/B	06	08	World Languages	None
WLG1005A	MS FY Spanish 1A/B	06	07	World Languages	19
WLG2001A	American Sign Lang 1A/B	08	12	World Languages	None
WLG2021A	Chinese 1A/B	06	12	World Languages	4
WLG2022A	Chinese 2A/B	06	12	World Languages	6
WLG2028A	Hon Chinese 3A/B	06	12	World Languages	2
WLG2034A	Chinese Lang Immersion 1A/B	06	12	World Languages	1
WLG2035A	Chinese Lang Immersion 2A/B	06	12	World Languages	None
WLG2036A	Chinese Lang Immersion 3A/B	06	12	World Languages	None
WLG2041A	French 1A/B	06	12	World Languages	30
WLG2042A	French 2A/B	06	12	World Languages	35
WLG2043A	French 3A/B	06	12	World Languages	2
WLG2048A	Hon French 3A/B	06	12	World Languages	19
WLG2053A	French Lang Immersion 1A/B	06	08	World Languages	2
WLG2054A	French Lang Immersion 2A/B	06	08	World Languages	2
WLG2055A	French Lang Immersion 3A/B	06	08	World Languages	2
WLG2061A	German 1A/B	06	12	World Languages	None
WLG2062A	German 2A/B	06	12	World Languages	None
WLG2071A	Italian 1A/B	06	12	World Languages	None
WLG2072A	Italian 2A/B	06	12	World Languages	None
WLG2081A	Japanese 1A/B	06	12	World Languages	None
WLG2082A	Japanese 2A/B	06	12	World Languages	None
WLG2121A	Russian 1A/B	06	12	World Languages	None
WLG2122A	Russian 2A/B	06	12	World Languages	None
WLG2131A	Spanish 1A/B	06	12	World Languages	39
WLG2132A	Spanish 2A/B	06	12	World Languages	39
WLG2133A	Spanish 3A/B	06	12	World Languages	1
WLG2138A	Hon Spanish 3A/B	06	12	World Languages	29
WLG2141A	Spanish For Spanish 1A/B	06	12	World Languages	18
WLG2142A	Spanish For Spanish 2A/B	06	12	World Languages	14
WLG2147A	Spanish Lang Immersion 1A/B	06	12	World Languages	7
WLG2148A	Spanish Lang Immersion 2A/B	06	12	World Languages	6
WLG2149A	Spanish Lang Immersion 3A/B	06	12	World Languages	3
WLG2150A	Spanish Literacy 1A/B	06	12	World Languages	13

Appendix D

Inventory of Montgomery County Public Schools High and Middle Schools Courses

The following appendix provides a detailed summary of all courses with any enrollments in Spring 2025. If a school had an enrollment within a specific course, it is designated with a check mark. The data includes the following caveats:

- Course tables are organized by subject area;
- Courses are listed in numerical order by course code number within each table;
- Courses with an A and B component were combined
- Schools are listed left to right from highest FARMS percentage to lowest FARMs percentage;
- Courses at Thomas Edison High School are not included in this inventory; and
- ALO and EML courses are not included in this inventory.

The middle school course inventory begins on page 36.

MCPS High School Course Inventory

*Courses are now classified as EANR but during Spring 2025 when the inventory was collected, courses were AGR

Each table contains a column that includes the graduation requirements met for each course (if applicable). The following abbreviations are used in the tables.

Abbreviation	Graduation Requirement
TE	Computer Science, Engineering, or Technology
ENG	English
FA	Fine Arts
H	Health Education
MAT*	Math
PE	Physical Education
SCI*	Science
SOC*	Social Studies
WLG	World Languages
CTE	Career and Technical Education
E	Elective

*These subject areas have more specific graduation requirements that are identified in the tables.

High School – Arts, Media and Communications (AMC)

Course Code	Course	*Grad Req*	**Kennedy**	Watkins Mill	**Northwood**	Springbrook	**Wheaton**	**Gaithersburg**	**Paint Branch**	**Blake**	Seneca Valley	**Einstein**	**Blair**	Rockville	**Magruder**	**QO**	Clarksburg	**Northwest**	Damascus	**RM**	**BCC**	Sherwood	WJ	Wootton	Poolesville	**Churchill**	Whitman
		Schools by FARMS Rate High to Low																								
AMC2004A/B	Video Production A/B	CTE	✓		✓				✓	✓					✓	✓					✓					✓	
AMC2005A/B	Elec Video Field Production A/B	CTE	✓		✓				✓	✓						✓										✓	
AMC2006A/B	Media Station Mgmt Prod A/B	CTE							✓	✓																	
AMC2007A/B	Intro Interactive Media A/B	CTE	✓		✓			✓	✓	✓						✓										✓	
AMC2008A/B	Research Art Media A/B	CTE			✓					✓						✓										✓	
AMC2009	Intern Art Media	CTE	✓						✓							✓											
AMC2010	CAP Writing News	E											✓														
AMC2011	CAP TV Studio Production	E											✓														
AMC2013A/B	CAP Adv Production A/B	E											✓														
AMC2016A/B	Game Development A/B	CTE								✓						✓											
AMC2017A/B	Adv Game Development A/B	CTE								✓						✓											
AMC5113	CE Adv Graphic Design	CTE			✓		✓					✓			✓	✓		✓		✓							
AMC5120	CE Adv Media	E			✓															✓							

High School – Environmental, Agriculture, and Natural Resources (ABG)

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	**Northwood**	Springbrook	**Wheaton**	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	**Damascus**	RM	BCC	**Sherwood**	WJ	Wootton	Poolesville	Churchill	Whitman
		Schools by FARMS Rate High to Low																									
AGB2002A/B	Plant Production A/B	CTE																	✓								
AGB2007A/B	Found Horticulture A/B	CTE																	✓								
AGB2008A/B	Landscape Design Management A/B	CTE																	✓								
AGB2010	Intern Environ	CTE																	✓								
AGB2015A/B	Agriculture, Food, and Natural Resources A/B	CTE			✓																	✓					
AGB2016A/B	Natural Resources and Ecology A/B	CTE			✓																	✓					
AGB2017A/B	Environmental Science Issues A/B	CTE			✓																						
AGB5118	CE Adv Landscape	CTE					✓																				

High School - Art (ART)

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
		Schools by FARMS Rate High to Low																									
ART2000A/B	Dance Fine Art A/B	FA	✓		✓		✓			✓		✓	✓	✓							✓						
ART2001A/B	Foundation of Art and Culture A/B	FA				✓	✓	✓			✓	✓	✓		✓	✓			✓	✓	✓			✓			✓
ART2003A/B	Dance 2A/B	FA	✓		✓		✓			✓		✓															
ART2004A/B	Dance 3A/B	FA			✓					✓		✓															
ART2005A/B	Modern Dance A/B	FA			✓	✓																					
ART2009A/B	Hip Hop Dance A/B	FA			✓					✓																	
ART2010A/B	Dance Company A/B	FA			✓		✓			✓		✓															
ART2016A/B	Choreography 1A/B	FA								✓		✓															
ART2017A/B	NC Foundation of Art A/B	FA												✓	✓									✓		✓	✓
ART2018A/B	IB Art Design 1A/B	FA	✓	✓		✓					✓	✓		✓						✓	✓						
ART2019	Adv Drawing 2	FA					✓																				
ART2020	Adv Contemporary Mixed Media 2	FA					✓																				
ART2021A/B	IB Art Design 2A/B	FA	✓	✓		✓					✓	✓								✓	✓						
ART2022A/B	Fashion Illustration 1A/B	FA	✓		✓					✓			✓				✓							✓		✓	
ART2023A/B	Fashion Production 1A/B	FA						✓		✓																✓	
ART2024A/B	Adv Fashion Production 2A/B	FA						✓		✓																✓	
ART2030A/B	Adv Fashion Illustration 2A/B	FA	✓							✓														✓		✓	
ART2031A/B	Adv 2D Studio Art 2A/B	FA	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ART2032A/B	2D Studio Art 3A/B	FA	✓	✓						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
ART2033A/B	2D Studio Art 4AB	FA		✓						✓		✓	✓		✓		✓		✓					✓		✓	
ART2034A/B	Adv Photography 3A/B	FA		✓			✓			✓	✓	✓	✓		✓	✓		✓		✓	✓	✓	✓			✓	✓
ART2035A/B	Adv Photography 4A/B	FA									✓				✓					✓							
ART2036	CAP Photography	FA											✓														
ART2037A/B	Darkroom Photography A/B	FA						✓		✓																	
ART2038A/B	Photography 1A/B	FA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ART2039A/B	Adv Photography 2A/B	FA	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
		Schools by FARMS Rate High to Low																									
ART2040A/B	AP 2D Photography A/B	FA			✓		✓	✓	✓	✓			✓		✓		✓	✓					✓	✓	✓	✓	✓
ART2041A/B	AP 2D Photography A DP/B	FA																					✓				
ART2042A/B	2D Studio Art 1A/B	FA	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ART2043A/B	Adv Painting 2A/B	FA											✓							✓				✓				
ART2044A/B	Adv Printmaking 2A/B	FA											✓															
ART2045A/B	Ceramic Sculpture 1A/B	FA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ART2046A/B	Adv Ceramic Sculpture 2A/B	FA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ART2047A/B	Adv Ceramic Sculpture 3A/B	FA		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ART2048A/B	Adv Ceramic Sculpture 4A/B	FA								✓	✓		✓		✓	✓			✓	✓			✓			✓	
ART2049A/B	Adv Functional Craft 2A/B	FA									✓		✓														
ART2050A/B	Graphic Art & Design 1A/B	FA								✓					✓												
ART2051A/B	Adv Graphic Art & Design 2A/B	FA								✓					✓												
ART2052A/B	Art History A/B	FA																	✓								
ART2053A/B	Functional Fine Art & Craft 1A/B	FA	✓					✓	✓		✓	✓	✓					✓					✓				
ART2054A/B	AP Art History A/B	FA											✓			✓		✓	✓	✓			✓		✓	✓	✓
ART2055A/B	Visual Art Level 2A/B DP	FA										✓															
ART2056A/B	AP Visual Art Centr 3A/B DP	FA										✓															
ART2057A/B	AP Visual Art Centr 4A/B DP	FA										✓															
ART2059A/B	Digital Art 3A/B	FA	✓		✓							✓	✓				✓	✓	✓			✓	✓				✓
ART2060A/B	Adv Digital Art 4A/B	FA											✓														
ART2061A/B	Adv Animation 2A/B	FA			✓						✓		✓														
ART2062A/B	AP Drawing A/B	FA				✓	✓	✓		✓		✓		✓	✓	✓	✓					✓	✓	✓	✓	✓	✓
ART2063A/B	AP Drawing A/B DP	FA														✓	✓	✓					✓	✓		✓	✓
ART2064A/B	AP 2D Art & Design A/B	FA	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓		✓	✓
ART2065	AP 2D Art & Design DP	FA														✓				✓			✓	✓		✓	
ART2066A/B	AP 3D Art & Design A/B	FA			✓		✓			✓		✓	✓	✓	✓	✓	✓				✓	✓		✓	✓	✓	✓
ART2067	AP 3D Art & Design DP	FA														✓							✓	✓			
ART2068A/B	Visual Art Level 1A/B DP	FA										✓															

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
		Schools by FARMS Rate High to Low																									
ART2069A/B	Digital Art 1A/B	FA	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
ART2070A/B	Adv Digital Art 2A/B	FA	✓		✓		✓	✓			✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓			✓	✓
ART2071A/B	Piano HS 1A/B	FA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓			✓	✓
ART2072A/B	Piano HS 2A/B	FA	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓			✓	✓
ART2073A/B	Piano HS 3A/B	FA							✓	✓	✓					✓		✓					✓				
ART2074A/B	Piano HS 4A/B	FA									✓		✓			✓						✓					
ART2075A/B	Music Theory Comp 1A/B	FA		✓	✓																						
ART2076A/B	AP Music Theory A/B	FA			✓	✓							✓		✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓
ART2078A/B	Music Perspectives A/B	FA								✓	✓											✓					
ART2079A/B	IB Adv Music 1A/B	FA	✓																		✓						
ART2080A/B	Guitar HS 3A/B	FA								✓	✓	✓	✓			✓		✓	✓	✓		✓	✓	✓			
ART2081A/B	Guitar HS 4A/B	FA									✓		✓			✓				✓			✓				
ART2082A/B	Guitar HS 1A/B	FA		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ART2083A/B	Guitar HS 2A/B	FA			✓	✓	✓			✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓
ART2084A/B	Music Technology A/B	FA				✓	✓			✓		✓	✓					✓				✓	✓				✓
ART2085	NC Chorus	FA																									
ART2087A/B	Chorus HS 1A/B	FA	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓
ART2088A/B	Chorus HS 2A/B	FA	✓		✓		✓	✓	✓		✓	✓	✓		✓		✓	✓		✓	✓			✓	✓		✓
ART2089A/B	Chorus HS 3A/B	FA			✓		✓		✓	✓			✓			✓	✓	✓	✓	✓	✓		✓	✓		✓	✓
ART2090A/B	Chamber Singers A/B	FA				✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
ART2091A/B	Show Choir A/B	FA							✓				✓			✓					✓	✓	✓			✓	
ART2092A/B	Beginning Band HS A/B	FA	✓	✓	✓	✓				✓	✓																
ART2093A/B	Concert Band A/B	FA	✓	✓	✓		✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
ART2094A/B	Symphonic Band A/B	FA		✓	✓	✓		✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ART2096A/B	Beginning Orchestra HS A/B	FA			✓					✓																	
ART2097A/B	Concert Orchestra A/B	FA	✓			✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
ART2099A/B	Symphonic Orchestra A/B	FA		✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
ART2100A/B	Jazz Ensemble A/B	FA	✓			✓		✓		✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	✓		✓	✓

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
		Schools by FARMS Rate High to Low																									
ART2102	Intro Dramatics	FA											✓														
ART2103A/B	Adv Acting A/B	FA		✓	✓				✓	✓	✓		✓			✓	✓				✓	✓	✓	✓			
ART2104A/B	Stage Design A/B	FA			✓		✓	✓	✓		✓		✓			✓	✓				✓			✓		✓	
ART2105A/B	Play Directing A/B	FA			✓			✓	✓	✓			✓			✓					✓		✓			✓	
ART2106A/B	Theatre HS 1A/B	FA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
ART2107A/B	Theatre HS 2A/B	FA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓		✓		✓	
ART2108A/B	Product and Perform A/B	FA																✓			✓		✓				
ART2110A/B	IB Film 1A/B	FA	✓	✓							✓									✓	✓						
ART2111A/B	IB Film 2A/B	FA	✓								✓									✓	✓						
ART2124A/B	IB Dance 1A/B	FA	✓																		✓						
ART2125A/B	IB Dance 2A/B	FA	✓																								
ART2126A/B	IB Theatre 1A/B	FA	✓			✓					✓	✓								✓							
ART2127A/B	IB Theatre 2A/B	FA	✓			✓					✓	✓								✓							
ART2150A/B	Jazz Lab Band A/B	FA			✓	✓						✓															
ART2151A/B	Adv Fashion Production 3A/B	FA						✓		✓																✓	
ART2153A/B	Musical Theatre A/B	FA			✓						✓	✓								✓			✓				
ART2154A/B	Wind Ensemble A/B	FA								✓			✓	✓		✓		✓			✓		✓	✓		✓	✓
ART2155A/B	Philharmonic Orchestra A/B	FA											✓	✓						✓	✓			✓	✓	✓	✓
ART2176	Art and Social Justice	FA																									✓
ART2177	Color Guard	E			✓					✓																	
ART5107	CE Adv Dance	E			✓																						
ART5117	CE Adv Integrated Arts	E			✓		✓				✓						✓		✓	✓			✓				✓
ART5127	CE Adv Theater	E			✓													✓								✓	
ART5128	CE Adv Visual Art	E			✓		✓				✓	✓			✓	✓	✓	✓	✓	✓	✓	✓			✓		

High School – Health Professions and Biosciences (BHP)

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
BHP2000A/B	Human Body Systems A/B	CTE					✓	✓						✓													
BHP2001A/B	Fund of Pharmacy A/B	CTE									✓				✓		✓										
BHP2002A/B	Molecular Biotech A/B DP	CTE																✓									
BHP2003	Intern Bioscience Health Med	CTE	✓																								
BHP2004A/B	Special Topics Biotechnology A/B	CTE																✓									
BHP2007A	Prin Biomedical Science A	CTE					✓							✓													
BHP2008A/B	Biomedical Innovation A/B	CTE					✓	✓						✓													
BHP2009A/B	Physical Rehab Science A/B	CTE	✓														✓										
BHP2010A/B	Medical Sci Clinical App A/B DP	CTE	✓						✓													✓					
BHP2011A/B	AHP Allied Health Intern A/B	CTE	✓	✓					✓		✓				✓		✓					✓					
BHP2014A/B	Structural Function Human Body A/B	CTE	✓	✓					✓		✓				✓		✓					✓					
BHP2015A/B	Found Medic Health Sci A/B	CTE	✓	✓					✓		✓				✓		✓					✓					
BHP2016A/B	Medical Interventions A/B	CTE					✓	✓						✓													
BHP2017	Intern Medical Careers	CTE	✓						✓																		
BHP2019A/B	Cert Clinical Medic Asst A/B	CTE	✓	✓					✓		✓																
BHP2022A/B	Prin Biomedical Science A/B	CTE					✓	✓						✓													
BHP5123	CE Adv Science	E			✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓
BHP5124	CE Adv Earth Science	E																✓		✓							✓

High School – Business, Management and Finance (BMF)

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
BMF2004A/B	Adv Business Management A/B	CTE	✓					✓		✓												✓					
BMF2005	Financial Plan	CTE							✓			✓			✓			✓									
BMF2006	Banking and Credit	CTE							✓			✓			✓			✓									
BMF2008	International Finance	CTE							✓			✓			✓			✓									
BMF2009A/B	Accounting A/B	CTE	✓		✓			✓		✓			✓		✓			✓				✓					
BMF2010A/B	Hon Adv Accounting A/B	CTE											✓														
BMF2014	International Business	CTE																									✓
BMF2016A/B	IB Business Management 1A/B	E	✓	✓							✓																
BMF2017A/B	IB Business Management 2A/B	E									✓																
BMF2018	NAF Prin of Finance	CTE							✓			✓			✓			✓									
BMF2019	NAF Applied Finance	CTE							✓			✓			✓			✓									
BMF2020	NAF Entrepreneurship	CTE							✓			✓			✓			✓									
BMF2021A/B	Business Management Capstone A/B	CTE	✓																								
BMF2025A/B	Marketing A/B	CTE			✓			✓		✓			✓					✓						✓			
BMF2026A/B	Entrepreneur 1A/B	CTE	✓		✓	✓		✓		✓			✓									✓				✓	
BMF2027	Intern Business	CTE	✓					✓					✓									✓					
BMF2028A/B	Adv Marketing A/B	CTE			✓								✓														
BMF2029	Intern NAF	CTE										✓			✓												
BMF2030A/B	NAF Prin of Accounting A/B	CTE							✓			✓															
BMF2079	AP Microeconomics BMF	CTE						✓							✓												
BMF2080	AP Macroeconomics BMF	CTE						✓							✓												
BMF5100	CE Adv Accounting	E			✓		✓								✓		✓	✓	✓	✓			✓				
BMF5102	CE Adv Business	E			✓		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
BMF5103	CE Adv Computer Apps	E			✓			✓						✓		✓	✓	✓		✓					✓		
BMF5108	CE Adv Economics	E			✓		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓			✓	

High School – Consumer Services, Hospitality and Tourism (CHT)

Course Code	Course	*Grad Req*	Kennedy	**Watkins Mill**	Northwood	**Springbrook**	Wheaton	Gaithersburg	**Paint Branch**	Blake	**Seneca Valley**	**Einstein**	Blair	**Rockville**	**Magruder**	QO	Clarksburg	Northwest	Damascus	RM	BCC	**Sherwood**	**WJ**	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
CHT2000A/B	Int Cultures Cuisines A/B	CTE													✓							✓					
CHT2001	Intern Hospitality Tour	CTE				✓						✓		✓	✓												
CHT2002A/B	Restaurant Management 1A/B	CTE							✓																		
CHT2003A/B	Restaurant Management 1A/B DP	CTE							✓																		
CHT2004A/B	Cul Essentials A/B	CTE																				✓					
CHT2005	Intern Hosp Tourism Mgmt Program	CTE		✓							✓				✓								✓				
CHT2006A/B	Restaurant Management 2A/B	CTE							✓																		
CHT2009A/B	Restaurant Management 2A/B DP	CTE							✓																		
CHT2010A/B	Food Trends A/B	CTE							✓																		
CHT2017A/B	Prin Hospitality Tourism A/B	CTE		✓		✓					✓	✓		✓	✓								✓				
CHT2019A/B	Marketing Hospitality A/B	CTE																					✓				
CHT2025A/B	Hospitality Tourism Management A/B	CTE		✓		✓					✓	✓		✓	✓								✓				

High School – Construction (CON)

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	**Northwood**	Springbrook	**Wheaton**	Gaithersburg	Paint Branch	Blake	**Seneca Valley**	Einstein	Blair	Rockville	Magruder	QO	**Clarksburg**	Northwest	**Damascus**	**RM**	BCC	**Sherwood**	**WJ**	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
CON2001A/B	HVAC 1A/B	CTE									✓																
CON2005A/B	Carpentry 1A/B	CTE									✓																
CON2018A/B	Construction Tech A/B	CTE									✓								✓								
CON2020A/B	Carpentry 2A/B DP	CTE									✓																
CON2022A/B	Electricity Const 1A/B	CTE									✓																
CON2024A/B	Electricity Const 2A/B DP	CTE									✓																
CON2044A/B	HVAC 2A/B DP	CTE									✓																
CON2050A/B	Intro Construction Design Mgmt A/B	CTE									✓																
CON2051A/B	Prin of Construction Design A/B	CTE									✓																
CON2052A/B	Adv Construction Management A/B	CTE									✓																
CON2064A/B	Adv Design and 3D Modeling A/B	CTE									✓																
CON2065	Construction Design & Management Internship	CTE									✓																
CON5105	CE Adv Construction	E			✓		✓				✓						✓			✓		✓	✓				

High School – Education (EDU)

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
EDU2000A/B	Human GrowDevlp Adolesc A/B	CTE	✓			✓				✓		✓															
EDU2009A/B	Fund Curric Instruct A/B	CTE	✓									✓															
EDU2010A/B	Teaching as Profession A/B	CTE	✓			✓				✓		✓															
EDU2013	Adv Intern Education	CTE		✓		✓	✓						✓		✓				✓			✓	✓	✓			
EDU2014	TAM Education Acad Intern	CTE	✓																								
EDU2016A/B	Cosmetology 1A/B TP	CTE						✓																			
EDU2017A/B	Cosmetology 3A/B TP	CTE						✓																			
EDU2018A/B	Cosmetology 2A/B TP	CTE						✓																			
EDU2027A/B	Adv Guided Research Education A/B	CTE		✓									✓		✓				✓				✓	✓			
EDU2028	Child Development Assoc Intern	CTE			✓			✓	✓		✓		✓	✓		✓	✓				✓						✓
EDU2029A/B	Child Growth and Development A/B	CTE		✓	✓		✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓
EDU2031A/B	Learning Envir Preschoolers A/B	CTE		✓	✓		✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓
EDU2032A/B	Child Dev Assoc Portfolio A/B	CTE			✓		✓	✓	✓		✓			✓		✓	✓	✓			✓	✓					✓
EDU5109	CE Adv Education	E			✓		✓				✓	✓						✓			✓					✓	
EDU5110	CE Adv Child Development Assoc	CTE											✓														

High School – English (ENG)

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
ENG2000A/B	English 9A/B	ENG	✓		✓										✓	✓				✓	✓	✓	✓		✓	✓	
ENG2001A/B	Hon English 9A/B	ENG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ENG2002A/B	English 10A/B	ENG	✓		✓						✓			✓	✓	✓				✓	✓	✓	✓		✓	✓	
ENG2003A/B	Hon English 10A/B	ENG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ENG2004A/B	English 11A/B	ENG	✓		✓						✓			✓	✓	✓				✓			✓		✓	✓	
ENG2005A/B	Hon English 11A/B	ENG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ENG2006A/B	English 12A/B	ENG	✓								✓			✓		✓				✓			✓		✓	✓	
ENG2007A/B	Hon English 12A/B	ENG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ENG2031A/B	AP Language and Comp A/B	ENG	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ENG2032A/B	AP Literature and Comp A/B	ENG			✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ENG2033	Culture In Lit	E														✓									✓		✓
ENG2034A/B	MCPS PIB English 9A/B	ENG	✓	✓		✓																					
ENG2035A/B	MCPS PIB English 10A/B	ENG		✓		✓																					
ENG2039	African American Lit	E															✓	✓									
ENG2042	Literacy in Digital Age 1	E			✓																						
ENG2043	Literacy in Digital Age 2	E			✓																						
ENG2044A/B	Myth and Modern Culture A/B	E	✓							✓		✓			✓		✓	✓					✓				
ENG2045A/B	IB English Lang Lit HL 1A/B	ENG	✓	✓		✓					✓			✓						✓	✓						
ENG2046A/B	IB English Lang Lit HL 2A/B	ENG	✓	✓		✓					✓			✓						✓	✓						
ENG2048A/B	Creative Writing A/B	E		✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓		✓			✓	✓
ENG2050A/B	CAP Adv Comp A/B	E											✓														
ENG2051A/B	Academic Reading A/B	E	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓		✓			✓	✓	✓
ENG2053A/B	Journalism A/B	E		✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓			✓	✓	✓		✓	✓	✓	✓	✓
ENG2054	Techniques of Advanced Journalism	E		✓				✓	✓	✓	✓		✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓
ENG2055	Pubs Edit/Biz	E	✓						✓	✓			✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓
ENG2056A/B	CAP Journalism A/B	E											✓														
ENG2057	CAP CRT Script Writing	E											✓														
ENG2059A/B	Criticism in Humanities A/B	E																							✓		
ENG2060A/B	Yearbook 1A/B	E	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ENG2061A/B	Yearbook 2A/B	E	✓	✓			✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓			

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
ENG2062A/B	Literary Mag A/B	E									✓										✓		✓				
ENG2063	CAP Jr Seminar	E											✓														
ENG2064	CAP Sr Seminar	E											✓														
ENG2065	College Prep Lit 1	E	✓	✓		✓		✓				✓	✓								✓						
ENG2066	College Prep Lit 2	E				✓						✓	✓								✓						
ENG2067	College Prep Lit 3	E					✓		✓			✓	✓														
ENG2068	College Prep Lit 4	E					✓		✓			✓	✓														
ENG2069	Inform Argument Speaking	E																✓					✓				
ENG2071	CAP Oral Interpretation	E											✓														
ENG2072	Media In Society	E				✓						✓	✓											✓	✓		✓
ENG2073	Literature As Film	E			✓				✓			✓	✓		✓		✓	✓	✓			✓		✓	✓		
ENG2075	Intro Film Study	E								✓																	
ENG2076A/B	RMS English 9A/B	ENG																		✓							
ENG2077A/B	RMS English 10A/B	ENG																		✓							
ENG2078A/B	IB English Acquisition 1A/B	ENG	✓									✓															
ENG2079A/B	IB English Acquisition 2A/B	ENG	✓																								
ENG2084A/B	Broadcast Journalism 1A/B	E												✓													
ENG2085A/B	Broadcast Journalism 2A/B	E												✓													
ENG2086	Shakespeare, Race, and Gender	E			✓																						
ENG2087	HS Developmental Reading 1	E	✓	✓		✓	✓		✓		✓		✓		✓		✓						✓	✓			
ENG2088	HS Developmental Reading 2	E		✓		✓	✓	✓	✓		✓		✓		✓			✓		✓					✓		
ENG2089A/B	IB English Language and Literature SL 1A/B	ENG	✓	✓							✓	✓															
ENG2090A/B	IB English Language and Literature SL 2A/B	ENG	✓	✓																							
ENG2092A/B	English 10 AP Seminar A/B	ENG			✓	✓	✓	✓	✓							✓	✓		✓			✓		✓	✓		
ENG2093A/B	IB English Literature HL 1A/B	ENG									✓	✓								✓							
ENG2094A/B	IB English Literature HL 2A/B	ENG	✓								✓	✓								✓							
ENG2095	TV Production 1	E		✓		✓	✓				✓	✓	✓		✓		✓			✓				✓	✓		✓
ENG2096	TV Production 2	E		✓		✓	✓				✓		✓		✓		✓			✓				✓	✓		✓
ENG2100A/B	Spanish Language Journalism A/B	E											✓														
ENG2101A/B	Sp Lang Silver Chips Print A/B	E											✓														
ENG2102A/B	Silver Chips Online A/B	E											✓														
ENG2103A/B	Yearbook Executive Staff A/B	E											✓														
ENG5111	CE Adv English	E			✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
ENG5125	CE Adv Speech	E			✓		✓	✓			✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓		✓		✓

High School – Engineering (ENR)

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
ENR2002A/B	Guided Research A/B	E																							✓		
ENR2004A/B	Research Project A/B	E											✓			✓									✓		
ENR2008A/B	Environmental Sustain A/B	CTE														✓											
ENR2009A/B	Civil Engineering A/B	CTE				✓	✓		✓		✓				✓		✓					✓			✓		✓
ENR2012	Robotics	CTE											✓												✓		
ENR2014A/B	Digital Electronics A/B	CTE		✓		✓	✓		✓		✓			✓		✓	✓				✓	✓			✓		✓
ENR2015A/B	Engineering Design Dev A/B	CTE		✓		✓	✓		✓		✓			✓	✓	✓	✓				✓	✓			✓		✓
ENR2016A/B	Prin of Engineering A/B	CTE				✓	✓		✓		✓			✓	✓	✓	✓				✓	✓			✓		✓
ENR2025	Intern Engineer	CTE				✓			✓																		
ENR2026A/B	Aerospace Engineering A/B	CTE					✓							✓	✓	✓					✓						✓
ENR5110	CE Adv Engineering	E			✓													✓		✓						✓	

High School – Health and Physical Education (HPE)

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
HPE2002	NC Physical Education	PE				✓					✓				✓	✓			✓					✓		✓	
HPE2003	Leadership Opportunity PE	PE	✓			✓	✓	✓			✓			✓					✓					✓		✓	✓
HPE2004A/B	Found Fitness Sport PE A/B	PE	✓	✓		✓	✓	✓	✓		✓	✓	✓					✓	✓	✓	✓		✓		✓	✓	
HPE2005	Concentrated Physical Ed	PE													✓												
HPE2006	Specialty Physical Ed	PE	✓																				✓				
HPE2009	CPE Individual Dual Sport	PE																	✓			✓					
HPE2010	CPE Lifetime Sports	PE			✓			✓					✓											✓			
HPE2011	CPE Net Sports	PE						✓	✓		✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓		✓		✓	✓
HPE2012	CPE Team Sports	PE						✓		✓				✓	✓	✓					✓	✓		✓			✓
HPE2013	CPE Team Individual Sport	PE	✓														✓										
HPE2014	Specialty PE Athletic Guide Train	PE														✓											
HPE2016	Specialty PE Basketball	PE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
HPE2017	Specialty PE Dance	PE	✓		✓	✓	✓		✓		✓	✓	✓	✓													
HPE2019	Specialty PE Fitness	PE						✓	✓				✓	✓	✓	✓	✓					✓	✓				✓
HPE2020	Specialty PE Flag Football	PE	✓	✓	✓			✓	✓	✓			✓		✓		✓			✓	✓			✓			
HPE2021	Specialty PE Lacrosse	PE								✓								✓									
HPE2022	Specialty PE Soccer	PE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
HPE2025	Specialty PE Volleyball	PE		✓		✓	✓		✓	✓		✓			✓	✓	✓	✓		✓		✓	✓				
HPE2026	Specialty PE Weight Strength Train	PE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
HPE2028	Specialty PE Yoga Stretching	PE	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
HPE2030	Human Behavior	E	✓	✓	✓	✓	✓	✓		✓	✓				✓		✓	✓		✓		✓	✓		✓		
HPE2032	NC Health Education	E									✓																
HPE2034	First Aid	E											✓			✓		✓									
HPE2042A/B	Hon Health Education A/B	H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HPE2046	Specialty PE Latin Dance	PE											✓														
HPE5114	CE Adv Health	E			✓		✓	✓			✓			✓			✓	✓		✓		✓	✓			✓	✓
HPE5122	CE Adv Physical Education	E									✓						✓	✓	✓	✓		✓					

High School – Information Technology (ITC)

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
ITC2004A/B	IB Computer Science 1A/B	E	✓																	✓							
ITC2005A/B	IB Computer Science 2A/B	CTE				✓																					
ITC2007A/B	AP Computer Sci JAVA A/B	CTE			✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓		✓		✓	✓			✓
ITC2008	Intern Info Tech	CTE		✓		✓		✓	✓		✓	✓				✓								✓			
ITC2012A/B	Adv WebTools DigtlMedia A/B	CTE					✓																	✓			
ITC2013A/B	Foundations Computer Science A/B	E											✓												✓		
ITC2014A/B	Algorithm Data A/B	E											✓												✓		
ITC2015	Intro Networking	E											✓												✓		
ITC2016	Analysis Algorithms	E											✓												✓		
ITC2017	Computer Graphics	E											✓														
ITC2018	Software Design	E											✓														
ITC2019	Modeling Simulation	E											✓														
ITC2021A/B	Comp Prog 3 Adv Topics A/B	E		✓	✓		✓	✓	✓	✓	✓		✓	✓		✓	✓	✓			✓		✓	✓		✓	✓
ITC2022	Intro AI/LISP	E											✓														
ITC2023	Computational Methods	E											✓														
ITC2024A/B	Computer Programming 1A/B	CTE			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓			
ITC2025A/B	Website Development A/B	CTE				✓	✓											✓		✓	✓			✓			
ITC2028	Network Ops Intern	CTE									✓																
ITC2034A/B	Database Admin Program A/B	E					✓																				
ITC2039A/B	Network Ops 1A/B DP	CTE															✓										
ITC2041A/B	Linux Essentials A/B	CTE									✓																
ITC2043A/B	Intro Internet of Things A/B	CTE					✓																				
ITC2047A/B	AP Comp Sci Prin PLTW A/B	CTE		✓										✓			✓								✓		
ITC2060A/B	Cybersecurity Capstone A/B DP	CTE									✓																
ITC2061A/B	PTech Network Ops 2A/B	CTE															✓										
ITC2062A/B	Seneca Valley Network Operations 1A/B	CTE									✓																
ITC2063A/B	SV Network Operations 2A/B DP	CTE									✓																
ITC2064A/B	IB Computer Science 1A/B TE	TE				✓								✓													

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
ITC2066A/B	Fundamentals of App Dev 1A/B	CTE		✓																			✓				
ITC2067A/B	Adv App Development 2A/B	CTE																					✓				
ITC2072A/B	PTECH Network Operations 1A/B DP	CTE															✓										
ITC2073A/B	AP CS Principles in Swift A/B	CTE		✓																			✓				
ITC2074A/B	Cybersecurity Fundamentals A/B	CTE					✓				✓																
ITC2076A/B	CyberOps Associate A/B	CTE																	✓								
ITC2077A/B	IT Essentials CISCO A/B	CTE				✓													✓					✓			
ITC2078A/B	Introduction to Networks CISCO A/B	CTE				✓													✓					✓			
ITC2079A/B	Linux Essentials CISCO A/B	CTE																	✓								
ITC2080A/B	Routing Switching Essentials CISCO A/B	CTE				✓																		✓			
ITC2081A/B	AP Computer Science JAVA A/B TE	TE										✓	✓				✓			✓		✓			✓	✓	
ITC2082A/B	Cloud Computing Essentials A/B	E				✓																					
ITC2083A/B	Found Computer Sci TE A/B	TE	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
ITC2084A/B	AP Computer Sci Prin TE A/B	TE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ITC5104	CE Adv Computer Science	E			✓	✓	✓	✓			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓

High School - Junior ROTC (JRO)

Course Code	Course	*Grad Req*	**Kennedy**	Watkins Mill	Northwood	Springbrook	Wheaton	**Gaithersburg**	**Paint Branch**	Blake	**Seneca Valley**	Einstein	Blair	Rockville	**Magruder**	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
JRO2000A/B	Naval Science 1A/B	CTE	✓					✓	✓		✓																
JRO2001A/B	Naval Science 2A/B	CTE	✓					✓	✓		✓																
JRO2002A/B	Naval Science 3A/B	CTE	✓					✓	✓		✓																
JRO2003A/B	Naval Science 4A/B	CTE	✓					✓	✓		✓																
JRO2004A/B	Army Jr ROTC 1A/B	CTE													✓												
JRO2005A/B	Army Jr ROTC 2A/B	CTE													✓												
JRO2006A/B	Army Jr ROTC 3A/B	CTE													✓												
JRO2007A/B	Army Jr ROTC 4A/B	CTE													✓												

High School – Math (MAT) MAT – General Math Requirement GEO – Geometry Requirement ALG – Algebra Requirement

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
MAT2000A/B	Algebra 1A/B	MAT/ALG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAT2001A/B	Related Math A/B	MAT					✓	✓		✓			✓				✓			✓		✓	✓				
MAT2003A/B	Geometry A/B	MAT/GEO		✓	✓		✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAT2004A/B	Hon Geometry A/B	MAT/GEO	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAT2011A/B	Algebra 2A/B	MAT/ALG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAT2012A/B	Hon Algebra 2A/B	MAT/ALG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAT2015A/B	2YR Algebra 2A/B	MAT/ALG	✓		✓			✓			✓		✓		✓	✓	✓	✓		✓	✓		✓	✓		✓	✓
MAT2016C/D	2YR Algebra 2C/D	MAT/ALG	✓		✓			✓	✓		✓		✓		✓	✓	✓	✓		✓	✓		✓	✓		✓	
MAT2018A/B	RMS Geometry A/B	MAT/GEO																		✓							
MAT2024A/B	MCPS PIB Geometry A/B	MAT/GEO	✓	✓		✓																					
MAT2026A/B	Math Appr to Prob Solving MAPS A/B Tier2	MAT		✓	✓	✓	✓	✓			✓	✓	✓	✓		✓				✓	✓						
MAT2029A/B	Magnet Precalculus A/B	MAT/ALG					✓						✓												✓		
MAT2030C/D	Magnet Precalculus C/D	MAT/ALG					✓						✓												✓		
MAT2031A/B	Precalculus A/B	MAT/ALG	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
MAT2033A/B	AP Precalculus A/B	MAT	✓	✓	✓	✓		✓			✓			✓	✓	✓		✓	✓								
MAT2034A/B	Financial Mathematics A/B	MAT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAT2036A/B	Magnet Functions A/B	MAT											✓												✓		
MAT2037A/B	Magnet Analysis 1A/B	MAT											✓												✓		
MAT2038A/B	MV Calc/Dif Eq A/B	MAT					✓		✓	✓			✓		✓						✓	✓	✓	✓	✓	✓	✓
MAT2039	Applied Stat	MAT											✓												✓		
MAT2040A/B	AP AB Calculus A/B	MAT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAT2041A/B	AP BC Calculus A/B	MAT	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAT2042A/B	IB An/App Functions A/B	MAT/ALG																		✓							
MAT2044A/B	Statistics Math Modl A/B	MAT	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓		✓	
MAT2045A/B	SR Sem Stats Research A/B	MAT											✓														
MAT2046A/B	Honors Statistics A/B	MAT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAT2048A/B	Hon Precalculus A/B	MAT/ALG		✓	✓		✓		✓	✓		✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAT2049A/B	Calculus w Applic A/B	MAT			✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
MAT2050A/B	Vector Calculus A/B	MAT																							✓		

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
MAT2052A	IB Precalculus A/B	MAT/ALG																		✓							
MAT2053	Discrete Math	MAT											✓												✓	✓	
MAT2054A	Linear Algebra	ALG											✓												✓	✓	
MAT2055	Complex Analysis	MAT											✓												✓		
MAT2056	Logic Math	MAT											✓												✓		
MAT2057A/B	1YR Linear Algebra A/B	ALG																									✓
MAT2060A/B	IB Analysis Statistics Calculus 1A/B	MAT				✓														✓							
MAT2061A/B	IB Analysis Stats Calculus SL 1A/B	MAT	✓	✓							✓																
MAT2062A/B	IB Analysis Statistics Calculus SL 2A/B	MAT	✓	✓		✓					✓										✓						
MAT2063A/B	IB Analysis Stats Calculus HL 1A/B	MAT									✓	✓		✓													
MAT2064A/B	IB Analysis Statistics Calculus HL 2A/B	MAT				✓					✓			✓						✓	✓						
MAT2066A/B	IB MultiVarCalc DiffEq A/B	MAT																		✓							
MAT2068A/B	AP Statistics A/B	MAT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MAT2077	Math 180 HS	E																		✓							
MAT2080A/B	IB Applic Statistics Calculus 1A/B	MAT				✓														✓							
MAT2081A/B	IB Applic Stats Calculus SL 1A/B	MAT	✓	✓							✓	✓		✓													
MAT2082A/B	IB Applic Statistics Calculus SL 2A/B	MAT	✓	✓							✓			✓							✓						
MAT2083A/B	IB Applic Stats Calculus HL 1A/B	MAT	✓																								
MAT2084A/B	IB Applic Statistics Calculus HL 2A/B	MAT	✓																								
MAT2085A/B	MCPS IB Algebra 2A/B	MAT/ALG	✓	✓		✓																					
MAT2086A/B	Math Appr to Prob Solving MAPS A/B Tier 1	MAT		✓	✓		✓	✓			✓		✓			✓				✓	✓						
MAT5119	CE Adv Mathematics	E			✓		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓

High School – Law, Government, Public Safety and Administration (PGS)

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
PGS2000A/B	Intro to Justice Law Society A/B	CTE			✓	✓							✓			✓											
PGS2001A/B	Law and Admin Justice A/B	CTE			✓	✓							✓			✓											
PGS2002A/B	Contemp Issues Justice Law Society A/B	CTE			✓	✓										✓											
PGS2004A/B	Found Law Enforcement A/B	CTE									✓																
PGS2005A/B	Law Enforce Emerg Prep A/B	CTE									✓																
PGS2006A/B	Admin Law and Justice A/B	CTE									✓																
PGS2009A/B	Research Law Enforcement Ldr A/B	CTE									✓																
PGS2010A/B	Law Enforcement Intern A/B	CTE									✓																
PGS2013A/B	Fire and Rescue 1A TP/B	CTE			✓																						
PGS2017A/B	Fire Rescue 2A/B TP	CTE																			✓	✓				✓	
PGS2025A/B	OC Fire and Rescue 1A/B TP	CTE									✓	✓					✓		✓	✓	✓		✓		✓		
PGS2026A/B	OC Fire Rescue 2A/B TP	CTE									✓	✓	✓				✓		✓			✓	✓	✓		✓	✓
PGS2027	Intern Law Gov Safety Admin	CTE				✓										✓											
PGS2028A/B	Research Law Government A/B	CTE			✓																						
PGS5106	CE Adv Criminal Justice	E			✓		✓				✓				✓	✓	✓	✓		✓							✓

High School – Science (SCI) SCI – NGSS Science BIO – NGSS Biology Req. PS – NGSS Physical Science Req. ESS – Earth and Space Science Req.

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
SCI2000A/B	Biology A/B	SCI/BIO			✓			✓	✓					✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	
SCI2000BX	Biology BX	SCI/BIO			✓			✓	✓					✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	
SCI2001A/B	Hon Biology A/B	SCI/BIO	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SCI2001BX	Hon Biology BX	SCI/BIIO	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SCI2003A/B	Chemistry A/B	SCI/PS/ESS		✓	✓		✓	✓	✓	✓	✓			✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
SCI2004A/B	Hon Chemistry A/B	SCI/PS/ESS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SCI2005A/B	Physics A/B	SCI/PS/ESS					✓	✓			✓				✓	✓	✓						✓		✓	✓	✓
SCI2006A/B	Hon Physics A/B	SCI/PS/ESS	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SCI2008A/B	Intern-Science A/B	E																									✓
SCI2009A/B	Intern Science A DP/B	E																									✓
SCI2010	Adv Sci1 Physics DP	SCI/PS/ESS											✓												✓		
SCI2011	Adv Sci2 Chemistry DP	SCI/PS/ESS											✓												✓		
SCI2012A/B	Adv Sci3 Earth SpSys A/B	EI																							✓		
SCI2013A/B	Adv Sci4 Biology A/B	SCI/BIO											✓												✓		
SCI2013BX	Adv Sci4 Biology BX	SCI/BIO											✓												✓		
SCI2014	Adv Sci3 Earth SpSys DP	E											✓														
SCI2016	Optics	E											✓														
SCI2017	Thermodynamics	E											✓												✓		
SCI2018	Analytical Chemistry	E											✓														
SCI2019	Materials Science	E											✓														
SCI2020A/B	Adv Topics Earth Sci	E											✓														
SCI2021	Cellular Physiology	E											✓														
SCI2022	Marine Biology	E			✓								✓		✓										✓		
SCI2024	Quantum Physics	E											✓												✓		
SCI2026A/B	Nutrition Sci A/B	E																✓									
SCI2027A/B	Hon Nutrition Sci A/B	E																						✓		✓	
SCI2029	Entomology	E											✓														
SCI2033A	Intro Genetic Analysis A	E											✓												✓		
SCI2034	Neuroscience	E											✓														
SCI2036	Intro Physical Chemistry	E											✓														

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
SCI2037	Organic Chemistry	E					✓						✓				✓								✓		
SCI2040A/B	AP Biology A/B	SCI/BIO/ESS						✓					✓														
SCI2041A/B	AP Biology A/B DP	SCI/BIO/ESS			✓	✓	✓	✓	✓	✓			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SCI2043	Wildlife Biology	E													✓										✓		
SCI2045A/B	Molecular Biology A/B	E				✓																✓	✓	✓			✓
SCI2046A/B	AP Environmental Sci A/B	SCI/ESS			✓		✓	✓	✓				✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SCI2047A/B	Environmental Science A/B	E																				✓					
SCI2049A	Environ Sci Biology A	SCI/BIO																							✓		
SCI2049BX	Environ Sci Biology BX	SCI/BIO																							✓		
SCI2050A/B	Environ Sci3 Physics A/B	SCI/PS/ESS																							✓		
SCI2054	Found of Immunology	E											✓														
SCI2056	Chemistry of Art	E											✓														
SCI2057A/B	AP Chemistry A/B	SCI/PS/ESS					✓						✓							✓							
SCI2059A/B	AP Chemistry A/B DP	SCI/PS/ESS				✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
SCI2060A/B	Anatomy and Physiology A/B	E			✓	✓		✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SCI2063A/B	AP Physics C ElecMagnet A/B	SCI/PS/ESS											✓										✓		✓	✓	
SCI2064A/B	AP Physics C Mechanics A/B	SCI/PS/ESS				✓							✓				✓	✓				✓	✓		✓	✓	
SCI2065A/B	AP Physics C MecElecMag A/B	SCI/PS/ESS											✓														
SCI2066A/B	AP Physics C A/B	SCI/PS/ESS					✓			✓					✓	✓			✓	✓	✓						✓
SCI2067A/B	AP Physics A/B DP	SCI/PS/ESS							✓															✓			✓
SCI2068A/B	Astronomy A/B	E									✓		✓			✓	✓						✓				
SCI2069A/B	Forensic Sci A/B	E		✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
SCI2070	Intro Bio Chemistry	E											✓														
SCI2071	Research Design Science	E																							✓		
SCI2072A/B	AP Physics 1A/B	SCI/PS/ESS			✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓					✓	✓	✓	✓	✓
SCI2073A/B	AP Physics 2A/B	SCI/PS/ESS																							✓		
SCI2076A/B	Molecular Genetics A/B DP	E																								✓	
SCI2077A/B	Intro Forensic Sci A/B	E																									✓
SCI2081A/B	IB Biology SL 1A/B	SCI/BIO/ESS	✓																								
SCI2082A/B	IB Biology HL 1A/B	SCI/BIO/ESS	✓	✓		✓					✓	✓		✓						✓	✓						
SCI2083A/B	IB Biology HL 2A/B	SCI/BIO/ESS	✓	✓		✓					✓	✓		✓						✓	✓						

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
SCI2084A/B	MCPS PIB Biology A/B	SCI/BIO		✓		✓																					
SCI2084BX	MCPS PIB Biology BX	SCI/BIO		✓		✓																					
SCI2085A/B	IB Sport Exercise Health Sci A/B	SCI/PS	✓	✓		✓					✓	✓								✓	✓						
SCI2086A/B	MCPS PIB Chemistry A/B	SCI/PS/ESS	✓	✓		✓																					
SCI2087A/B	IB Chemistry SL 1A/B	SCI/PS/ESS	✓	✓							✓										✓						
SCI2089A/B	IB Chemistry SL 2A/B	SCI/PS/ESS	✓																								
SCI2090A/B	IB Environmental System A/B	SCI/ESS	✓	✓		✓					✓	✓		✓						✓	✓						
SCI2096A/B	IB Physics SL 1A/B	SCI/PS/ESS	✓								✓																
SCI2103A	RMS Biology 1A	SCI/BIO																		✓							
SCI2103BX	RMS Biology 1BX	SCI/BIO																		✓							
SCI2104A/B	RMS Chemistry A/B	SCI/PS/ESS																		✓							
SCI2107	Hon Chemistry DP	SCI/PS/ESS							✓				✓														
SCI2108	Hon Biology DP	SCI/BIO							✓																		
SCI2108X	Hon Biology DP X	SCI/BIO							✓				✓														
SCI2109A/B	MCPS IB Physics A/B	SCI/PS/ESS	✓			✓																					
SCI2110A/B	Earth Systems and Sustainability A/B	SCI/ESS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓				
SCI2112A/B	Horticultural Sci A/B	E		✓	✓		✓	✓					✓			✓			✓								
SCI2113	Global Climate Change	E			✓																						
SCI2114A/B	IB Biology SL 2A/B	SCI/BIO/ESS	✓																								
SCI2115A/B	IB Chemistry HL 1A/B	SCI/PS/ESS	✓			✓						✓		✓						✓							
SCI2116A/B	IB Chemistry HL 2A/B	SCI/PS/ESS	✓									✓								✓							
SCI2117A/B	IB Physics HL 1A/B	SCI/PS/ESS		✓								✓		✓						✓	✓						
SCI2118A/B	IB Physics HL 2A/B	SCI/PS/ESS		✓								✓		✓						✓	✓						
SCI2119	Introduction to Genetic Analysis	E															✓										
SCI5085A/B	Astronomy with Physics A/B	SCI/PS.ESS	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓		✓		✓	✓

High School – Social Studies (SOC) USH – US History Req. NSL – NSL Government Req. WH – World History Req.

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
SOC2000A/B	US History A/B	SOC/USH	✓	✓	✓	✓		✓		✓	✓			✓	✓		✓			✓	✓		✓		✓	✓	
SOC2001A/B	Hon US History A/B	SOC/USH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SOC2003A/B	NSL Government A/B	SOC/NSL	✓	✓	✓		✓	✓		✓	✓			✓	✓		✓			✓	✓		✓		✓	✓	
SOC2003BX	NSL Government BX	SOC/NSL	✓	✓	✓		✓	✓		✓	✓			✓	✓		✓			✓	✓		✓		✓	✓	
SOC2004A/B	Hon NSL Government A/B	SOC/NSL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SOC2004BX	Hon NSL Government BX	SOC/NSL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SOC2006A/B	Mod World History A/B	SOC/WH	✓	✓	✓		✓	✓		✓	✓			✓	✓	✓	✓				✓		✓		✓	✓	✓
SOC2007A/B	Hon Modern World A/B	SOC/WH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SOC2015	IB Theory Knowledge 1	E	✓			✓					✓			✓							✓						
SOC2016	IB Theory Knowledge 2	E		✓		✓					✓	✓		✓						✓	✓						
SOC2017A/B	IB TOK1 Essay A/B	E	✓	✓		✓					✓	✓		✓						✓							
SOC2018A/B	IB Global Politics SL A/B	E				✓					✓	✓								✓							
SOC2019	African American History	E	✓				✓			✓			✓		✓					✓							
SOC2020	African American History 2	E								✓																	
SOC2021A/B	AP GovPolitics US NSL A/B	SOC/NSL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SOC2021BX	AP GovPolitics US NSL BX	SOC/NSL					✓				✓			✓												✓	
SOC2022A/B	AP US History A/B	SOC/USH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SOC2024A/B	AP GovPolitics Comp A/B	E											✓		✓	✓	✓				✓	✓	✓	✓		✓	✓
SOC2026	Intl Human Rights 1	E	✓																								
SOC2028	Latin American History	E	✓			✓	✓						✓					✓			✓						
SOC2031	Ancient Mediterranean Civ	E														✓							✓				
SOC2032	Medieval History	E														✓							✓		✓		
SOC2035	Hip Hop History Culture	E		✓							✓		✓	✓							✓						
SOC2037A/B	AP European History A/B	E													✓		✓	✓	✓		✓		✓	✓		✓	
SOC2038	Eastern Asia	E						✓													✓						
SOC2039	History Eastern Asia 2	E																			✓						
SOC2040	World Military History	E		✓																				✓	✓		
SOC2043A/B	IB History 1A/B	SOC/WH	✓	✓		✓					✓	✓		✓						✓	✓						
SOC2044A/B	IB Psychology 1A/B	E		✓		✓					✓	✓		✓							✓						
SOC2045A/B	IB Economics SL A/B	E	✓			✓					✓	✓								✓	✓						

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
SOC2046A/B	IB Philosophy SL A/B	E																		✓							
SOC2047A/B	AP World History A/B	SOC/WH	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SOC2048A/B	IB Social Anthropology SL A/B	E	✓								✓			✓						✓	✓						
SOC2050A/B	IB World Religion SL A/B	E		✓																							
SOC2051A/B	Women's Studies A/B	E	✓		✓		✓						✓			✓				✓	✓						✓
SOC2052	Economics	E			✓		✓						✓						✓		✓					✓	
SOC2053	Psychology 1	E		✓	✓		✓	✓		✓	✓	✓	✓				✓	✓							✓	✓	
SOC2054	Psychology 2	E		✓	✓						✓	✓	✓				✓	✓							✓	✓	
SOC2055	Sociology 1	E		✓	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓		✓		✓		✓	
SOC2056	Sociology 2	E		✓	✓				✓		✓	✓	✓		✓	✓	✓	✓	✓	✓		✓		✓		✓	✓
SOC2057	Honors Sociology 1	E												✓									✓				
SOC2058	Honors Sociology 2	E												✓									✓				
SOC2059	Law	E		✓			✓	✓	✓	✓		✓		✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SOC2060	Law 2	E		✓						✓				✓			✓	✓				✓	✓	✓	✓		
SOC2061A/B	Modern Urban World A/B	E		✓																							
SOC2063	Philosophy	E						✓					✓				✓	✓			✓		✓		✓		✓
SOC2064	AP Macroeconomics	E								✓		✓	✓			✓	✓	✓		✓	✓		✓	✓	✓	✓	✓
SOC2065	AP Microeconomics	E								✓		✓	✓			✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
SOC2066A/B	Humanities SS A/B	E															✓										
SOC2067	Comparative Religion	E											✓								✓	✓	✓				
SOC2068A/B	AP Human Geography A/B	E					✓		✓	✓			✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SOC2069A/B	AP Psychology A/B	E	✓		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SOC2070	Psychology Journal	E																									✓
SOC2071A/B	Global Issues A/B	E			✓		✓								✓												
SOC2072A/B	Honors Global Issues A/B	E											✓													✓	
SOC2073A/B	IB Geography SL A/B	E									✓	✓															
SOC2074A/B	IB History 2A/B	E	✓	✓		✓					✓	✓		✓						✓	✓						
SOC2076	Honors Ancient History	E																								✓	
SOC2077	Honors Medieval History	E																								✓	
SOC2078A/B	Honors Cultural Anthropology A/B	E																								✓	
SOC2086	Honors Seminar Peace Studies	E																			✓						

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
SOC2087	LGBTQ Studies	E																									✓
SOC2088	Political Behavior and Psychology	E											✓										✓				✓
SOC2089	American History Through Film	E		✓	✓			✓	✓				✓		✓			✓				✓	✓			✓	
SOC2091	Ldrshp Equity Incl Soc Justice Semnr	E																									✓
SOC2092A/B	IB Social and Cultural Anthropology 2A/B	E	✓																								
SOC2093	Environmental Justice	E																									✓
SOC2094	Asian/Pac Island/Desi/Amer Studies (APIDA)	E																✓									
SOC2097	Positive Psychology	E									✓										✓		✓				✓
SOC2099	Hispanic/Latinx American Studies	E		✓	✓											✓											
SOC2100	Muslim Global Experiences	E								✓																	
SOC2101A/B	AP African American Studies A/B	SOC		✓		✓			✓		✓		✓			✓	✓	✓			✓		✓			✓	✓
SOC2102	Personal Finance	E	✓		✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SOC2103	Social Justice through Public Policy	E																									✓
SOC2104	Jewish Peoplehood Throughout History	E											✓														
SOC2105A/B	IB Psychology 2A/B	E		✓																							
SOC2106	Women's History	E		✓																							
SOC5121	CE Adv Music	E			✓		✓				✓	✓				✓	✓	✓		✓		✓	✓		✓	✓	
SOC5124	CE Adv Social Studies	E			✓		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓

High School – Technology (TEC)

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
TEC2000A/B	Found Of Tech A/B	TE	✓	✓			✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓		✓	✓		✓		
TEC2006A/B	Making for Engineers A/B	TE	✓		✓			✓		✓		✓						✓		✓						✓	
TEC2007A/B	Adv Design Applications A/B	TE																		✓			✓		✓		
TEC2008A/B	Adv Tech Applications A/B	TE																					✓				
TEC2009A/B	Research Exp Problem Solving 1A/B	E											✓												✓		
TEC2016A/B	Foundations of Engineering and Technology A/B	TE			✓					✓			✓					✓					✓		✓		
TEC2017A/B	Introduction to Engineering Design A/B	TE		✓		✓	✓		✓		✓			✓	✓	✓	✓				✓	✓			✓		✓
TEC2018A/B	Programming for Engineers e4usa A/B	E																		✓						✓	
TEC5126	CE Adv Technology Credit	E			✓		✓	✓			✓	✓		✓	✓	✓	✓	✓	✓	✓		✓					✓

High School – Transportation (TRN)

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	**Gaithersburg**	Paint Branch	Blake	**Seneca Valley**	Einstein	Blair	Rockville	**Magruder**	QO	Clarksburg	Northwest	**Damascus**	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
TRN2004A/B	Auto Tech 2A/B DP	CTE						✓			✓								✓								
TRN2005A/B	Auto Tech 3A/B DP	CTE									✓								✓								
TRN2006A/B	Auto Tech 1A/B DP	CTE						✓			✓								✓								
TRN2008A/B	Auto Collision Repair 1A/B DP	CTE						✓																			
TRN2009A/B	Auto Collision Repair 2A/B DP	CTE						✓																			
TRN2018	Intro To Flight	CTE													✓												
TRN2019	Aircraft Systems	CTE													✓												
TRN2020	Pvt Pilot Fundamentals 1	CTE													✓												
TRN2021	Pvt Pilot Fundamentals 2	CTE													✓												
TRN2022	Unmanned Aircraft Systems 1	CTE													✓												
TRN2023	Unmanned Aircraft Systems 2	CTE													✓												
TRN2024A	Unmanned Aircraft Sys Flight 1	CTE													✓												
TRN2024B	Unmanned Aircraft Sys Flight 2	CTE													✓												
TRN2025A	Private Pilot Flight 1	CTE													✓												
TRN2025B	Private Pilot Flight 2	CTE													✓												
TRN2026	Exploration Aviation Aerospace	CTE													✓												
TRN2027	Principles Aviation Aerospace	CTE													✓												

High School – Work Based Learning (WBL)

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
WBL2002	NC Intro Careers	E																	✓								
WBL2003	Career Awareness	E	✓																								
WBL2007	PreVoc Explore Jobs	E	✓																								
WBL2013A/B	Site Work Exp SP A/B	CTE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
WBL2014A/B	Internship A/B	CTE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WBL2015A/B	Internship A/B DP	CTE	✓		✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WBL2016A/B	Internship A/B TP	CTE		✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓
WBL2019	Apprenticeship WBL 1 DP	CTE	✓		✓	✓		✓	✓	✓		✓	✓					✓	✓	✓	✓		✓				✓
WBL2020A/B	Apprenticeship WBL 2A/B	CTE	✓		✓	✓		✓				✓	✓		✓					✓	✓		✓				✓
WBL2021	Apprenticeship WBL 3 DP	CTE				✓			✓		✓	✓	✓		✓					✓	✓						✓
WBL2022	Apprenticeship Related Instruction	CTE	✓			✓		✓	✓	✓	✓	✓	✓					✓	✓	✓	✓		✓				✓

High School – World Languages (WLG)

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
WLG2001A/B	American Sign Lang 1A/B	WLG	✓							✓	✓		✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓
WLG2002A/B	American Sign Lang 2A/B	WLG	✓					✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓
WLG2003A/B	American Sign Lang 3A/B	WLG	✓							✓			✓	✓	✓	✓	✓		✓	✓				✓		✓	✓
WLG2004A/B	American Sign Lang 4A/B	WLG											✓	✓	✓												✓
WLG2011A/B	Arabic 1A/B	WLG			✓																✓						✓
WLG2012A/B	Arabic 2A/B	WLG			✓																✓						✓
WLG2013A/B	Arabic 3A/B	WLG																			✓						✓
WLG2014A/B	Arabic 4A/B	WLG																			✓						
WLG2021A/B	Chinese 1A/B	WLG					✓										✓				✓		✓	✓			
WLG2022A/B	Chinese 2A/B	WLG					✓									✓	✓			✓	✓		✓	✓			
WLG2028A/B	Honors Chinese 3A/B	WLG					✓									✓	✓			✓	✓		✓	✓		✓	✓
WLG2029A/B	Honors Chinese 4A/B	WLG															✓			✓	✓		✓	✓		✓	✓
WLG2025A/B	Chinese 5A/B	WLG					✓														✓		✓	✓		✓	✓
WLG2026A/B	Chinese 6A/B	WLG																									
WLG2027A/B	Chinese 7A/B	WLG																						✓		✓	
WLG2037A/B	RMS Chinese 3A/B	WLG																		✓							
WLG2038A/B	AP Chinese LC A/B	WLG																		✓			✓	✓		✓	✓
WLG2041A/B	French 1A/B	WLG	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓
WLG2042A/B	French 2A/B	WLG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
WLG2043A/B	French 3A/B	WLG																					✓				✓
WLG2045A/B	French 5A/B	WLG			✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓					✓		✓	✓	✓	✓	✓
WLG2046A/B	French 6A/B	WLG									✓		✓	✓							✓		✓	✓			
WLG2047A/B	French 7A/B	WLG												✓										✓		✓	
WLG2048A/B	Honors French 3A/B	WLG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
WLG2049A/B	Honors French 4A/B	WLG			✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
WLG2056A/B	RMS French 3A/B	WLG																		✓							
WLG2057A/B	AP French LC A/B	WLG			✓			✓	✓	✓			✓			✓	✓	✓		✓	✓		✓	✓		✓	✓
WLG2071A/B	Italian 1A/B	WLG				✓	✓																✓				✓

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
WLG2072A/B	Italian 2A/B	WLG				✓	✓												✓				✓				✓
WLG2075A/B	Italian 5A/B	WLG																									✓
WLG2076A/B	Honors Italian 3A/B	WLG				✓																					
WLG2078A/B	AP Italian LC A/B	WLG																									✓
WLG2081A/B	Japanese 1A/B	WLG							✓			✓	✓														✓
WLG2082A/B	Japanese 2A/B	WLG							✓			✓	✓														✓
WLG2085A/B	Japanese 5A/B	WLG																									✓
WLG2088A/B	Honors Japanese 3A/B	WLG							✓			✓	✓														✓
WLG2089A/B	Honors Japanese 4A/B	WLG							✓				✓														✓
WLG2090A/B	AP Japanese LC A/B	WLG											✓														✓
WLG2101A/B	Latin 1A/B	WLG														✓							✓				✓
WLG2102A/B	Latin 2A/B	WLG														✓							✓				✓
WLG2103A/B	Latin 3A/B	WLG	✓																								
WLG2106A/B	Honors Latin 3A/B	WLG														✓							✓				
WLG2107A/B	Honors Latin 4A/B	WLG																					✓				
WLG2108A/B	AP Latin A/B	WLG																					✓				
WLG2131A/B	Spanish 1A/B	WLG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WLG2132A/B	Spanish 2A/B	WLG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WLG2133A/B	Spanish 3A/B	WLG																									✓
WLG2135A/B	Spanish 5A/B	WLG			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WLG2136A/B	Spanish 6A/B	WLG										✓															
WLG2137A/B	Spanish 7A/B	WLG																						✓			
WLG2138A/B	Honors Spanish 3A/B	WLG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WLG2139A/B	Honors Spanish 4A/B	WLG			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WLG2141A/B	Spanish For Spanish 1A/B	WLG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
WLG2142A/B	Spanish For Spanish 2A/B	WLG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
WLG2143A/B	Spanish For Spanish 3A/B	WLG		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
WLG2150A/B	Spanish Literacy 1A/B	WLG		✓	✓	✓		✓					✓														
WLG2151A/B	RMS Spanish 3A/B	WLG																		✓							
WLG2152A/B	AP Spanish LC A/B	WLG	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Course Code	Course	*Grad Req*	Kennedy	Watkins Mill	Northwood	Springbrook	Wheaton	Gaithersburg	Paint Branch	Blake	Seneca Valley	Einstein	Blair	Rockville	Magruder	QO	Clarksburg	Northwest	Damascus	RM	BCC	Sherwood	WJ	Wootton	Poolesville	Churchill	Whitman
			Schools by FARMS Rate High to Low																								
WLG2153A/B	AP Spanish Lit A/B	WLG				✓	✓	✓					✓		✓			✓			✓		✓				✓
WLG2201A/B	IB Arabic 3A/B	WLG																			✓						
WLG2202A/B	IB Arabic 4A/B	WLG																			✓						
WLG2203A/B	IB Chinese 3A/B	WLG																			✓						
WLG2204A/B	IB Chinese 4A/B	WLG																		✓	✓						
WLG2205A/B	IB Chinese 5A/B	WLG																		✓	✓						
WLG2206A/B	IB Chinese 6A/B	WLG																		✓							
WLG2207A/B	IB Chinese 7A/B	WLG																		✓	✓						
WLG2208A/B	IB French 4A/B	WLG	✓	✓		✓					✓	✓								✓							
WLG2209A/B	IB French 5A/B	WLG	✓	✓		✓					✓	✓		✓						✓	✓						
WLG2210A/B	IB French 6A/B	WLG	✓	✓		✓					✓	✓		✓						✓	✓						
WLG2211A/B	IB French 7A/B	WLG	✓	✓		✓					✓	✓								✓	✓						
WLG2221A/B	IB Japanese 4A/B	WLG										✓															
WLG2226A/B	IB Spanish 4A/B	WLG	✓	✓		✓					✓	✓								✓							
WLG2227A/B	IB Spanish 5A/B	WLG	✓	✓		✓					✓	✓		✓						✓	✓						
WLG2228A/B	IB Spanish 6A/B	WLG	✓	✓		✓					✓	✓		✓						✓	✓						
WLG2229A/B	IB Spanish 7A/B	WLG		✓		✓					✓	✓								✓	✓						
WLG2230A/B	IB Spanish Lang Lit 1A/B	WLG	✓	✓								✓		✓													
WLG2231A/B	IB Spanish Lang Lit 2A/B	WLG	✓									✓															
WLG2258A/B	MCPS PIB French 3A/B	WLG		✓																							
WLG2265A/B	MCPS PIB Spanish 1A/B	WLG		✓																							
WLG2266A/B	MCPS PIB Spanish 2A/B	WLG		✓																							
WLG2267A/B	MCPS PIB Spanish 3A/B	WLG		✓																							
WLG5129	CE Adv WL Am Sign Lang	E			✓		✓										✓	✓		✓	✓	✓	✓			✓	
WLG5130	CE Adv World Language	E			✓		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓

MCPS Middle School Course Inventory

Similar to the high school inventory tables, these tables are sorted from highest FARMS rate to lowest FARMS rate. Further, any course that can count towards a graduation requirement is shaded in each table.

Arts, Media and Communications (AMC)

Middle School	FARMS Position	Intro Digital Publish	Intro Digital Media	TV Studio
Key	1			
Lee	2			
Montgomery Village	3			
Forest Oak	4			
White Oak	5			
Argyle	6	P	P	P
Banneker	7			P
Neelsville	8			
Parkland	9			
Loiederman	10			
Eastern	11			✓
Briggs Chaney	12			
Newport Mill	13			
Gaithersburg	14			
King	15			
Shady Grove	16			✓
Clemente	17			
Redland	18			
Rocky Hill	19			✓
Sligo	20			
SSI	21			✓
Wood	22			
Ridgeview	23			
Julius West	24			
Takoma Park	25			
Kingsview	26			
Baker	27			✓
Lakelands	28			✓
Silver Creek	29			
Farquhar	30			✓
Tilden	31			✓
Hallie Wells	32			✓
Parks	33			
Poole	34			
Westland	35			
N. Bethesda	36			
Frost	37			✓
Cabin John	38			✓
Hoover	39			
Pyle	40			✓

Art (ART)

Middle School	FARMS Position	Innovative Art & Design 2	Innovative Art & Design 1	Innovative Art & Design 3	MS Dig Art Photography	MS Dig Art Photography 2	MS Photography 3	MS Digital Art 3	MS Draw 2D Art 3	MS Studio Art 1/TR	MS Studio Art 2/TR
Key	1		✓							✓	✓
Odessa Shannon	2				✓	✓		✓	✓	✓	✓
Montgomery Village	3									✓	✓
Forest Oak	4				✓	✓		✓		✓	✓
White Oak	5				✓					✓	✓
Argyle	6	✓	✓	✓	✓						
Banneker	7									✓	✓
Neelsville	8								✓	✓	✓
Parkland	9				✓			✓		✓	✓
Loiederman	10					✓		✓		✓	✓
Eastern	11				✓					✓	✓
Briggs Chaney	12			✓						✓	✓
Newport Mill	13	✓			✓	✓		✓		✓	✓
Gaithersburg	14	✓	✓	✓						✓	✓
King	15									✓	✓
Shady Grove	16		✓								
Clemente	17									✓	✓
Redland	18									✓	✓
Rocky Hill	19				✓	✓		✓		✓	✓
Sligo	20		✓							✓	✓
SSI	21	✓	✓	✓						✓	✓
Wood	22				✓	✓		✓		✓	✓
Ridgeview	23				✓					✓	✓
Julius West	24	✓		✓					✓	✓	✓
Takoma Park	25								✓	✓	✓
Kingsview	26				✓				✓	✓	✓
Baker	27				✓	✓				✓	✓
Lakelands	28						✓			✓	✓
Silver Creek	29				✓	✓		✓		✓	✓
Farquhar	30				✓	✓		✓		✓	✓
Tilden	31				✓	✓		✓		✓	✓
Hallie Wells	32				✓	✓				✓	✓
Parks	33				✓	✓	✓			✓	✓
Poole	34	✓		✓		✓				✓	✓
Westland	35				✓					✓	✓
N. Bethesda	36			✓		✓		✓		✓	✓
Frost	37					✓		✓		✓	✓
Cabin John	38									✓	✓
Hoover	39		✓								✓
Pyle	40				✓				✓		

Middle School	FARMS Position	MS Studio Art 3	General Music MS 1	General Music MS 2	General Music MS 3	Band 1 MS & Creative Thinking	Band 2 MS	Band 3 MS	Beginning Band MS & Creative Thinking	Beginning Orchestra MS & Creative Thinking	MS Ceramic Sculpture 3
Key	1		✓	✓		✓	✓		✓		✓
Odessa Shannon	2		✓			✓	✓	✓			✓
Montgomery Village	3	✓	✓			✓	✓				✓
Forest Oak	4	✓	✓				✓	✓	✓	✓	✓
White Oak	5			✓			✓				✓
Argyle	6		✓			✓	✓				
Banneker	7	✓				✓	✓	✓			
Neelsville	8	✓	✓			✓	✓	✓			
Parkland	9	✓				✓	✓	✓			
Loiederman	10			✓		✓	✓		✓	✓	✓
Eastern	11	✓	✓	✓		✓	✓	✓			
Briggs Chaney	12		✓				✓		✓		
Newport Mill	13	✓	✓			✓	✓	✓			
Gaithersburg	14	✓	✓			✓	✓	✓			
King	15	✓	✓	✓		✓	✓				
Shady Grove	16					✓	✓	✓	✓	✓	
Clemente	17	✓				✓	✓	✓			
Redland	18	✓	✓		✓	✓	✓	✓	✓	✓	
Rocky Hill	19	✓				✓	✓	✓			
Sligo	20	✓	✓	✓		✓		✓			
SSI	21	✓	✓			✓	✓	✓			✓
Wood	22	✓	✓		✓	✓	✓	✓	✓	✓	
Ridgeview	23	✓				✓	✓				
Julius West	24	x	✓			✓	✓	✓			
Takoma Park	25		✓	✓	✓	✓	✓	✓			✓
Kingsview	26					✓	✓	✓	✓	✓	
Baker	27	✓	✓	✓	✓	✓	✓	✓			
Lakelands	28	✓				✓	✓	✓			
Silver Creek	29	✓				✓	✓	✓		✓	
Farquhar	30	✓	✓				✓	✓	✓	✓	
Tilden	31	✓				✓	✓	✓			
Hallie Wells	32	✓				✓	✓	✓			✓
Parks	33	✓				✓	✓	✓			
Poole	34					✓			✓	✓	
Westland	35	✓	✓			✓	✓	✓			
N. Bethesda	36	✓				✓	✓	✓			✓
Frost	37	✓	✓			✓	✓	✓	✓	✓	
Cabin John	38	✓	✓			✓	✓	✓			✓
Hoover	39	✓				✓	✓	✓			✓
Pyle	40		✓			✓	✓	✓			✓

Middle School	FARMS Position	Chorus MS Creative Thinking & Singing 1	Chorus MS 2	Chorus MS 3	Guitar MS 1	Guitar MS 2	Orchestra 1 MS & Creative Thinking	Orchestra 2 MS	Orchestra 3 MS	Piano MS 1	Piano MS 2
Key	1	✓	✓	✓			✓	✓			
Odessa Shannon	2	✓	✓	✓	✓		✓	✓		✓	✓
Montgomery Village	3	✓					✓	✓			
Forest Oak	4	✓		✓				✓	✓		
White Oak	5	✓	✓		✓	✓		✓			
Argyle	6						✓	✓			
Banneker	7	✓	✓	✓	✓		✓	✓	✓		
Neelsville	8	✓	✓	✓			✓	✓	✓		
Parkland	9				✓	✓	✓	✓	✓		
Loiederman	10	✓	✓	✓	✓	✓	✓	✓		✓	✓
Eastern	11	✓					✓	✓			
Briggs Chaney	12	✓	✓	✓			✓	✓			
Newport Mill	13	✓	✓				✓	✓		✓	
Gaithersburg	14	✓	✓	✓			✓	✓	✓		
King	15	✓	✓				✓	✓			
Shady Grove	16	✓					✓	✓	✓		
Clemente	17	✓	✓	✓			✓	✓			
Redland	18	✓	✓	✓			✓	✓	✓		
Rocky Hill	19	✓	✓	✓			✓	✓	✓		
Sligo	20	✓	✓	✓			✓		✓		
SSI	21	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wood	22	✓	✓	✓				✓			
Ridgeview	23	✓	✓	✓	✓		✓	✓			
Julius West	24	✓	✓	✓	✓	✓	✓	✓	✓		
Takoma Park	25	✓	✓				✓	✓	✓		
Kingsview	26	✓	✓	✓			✓	✓	✓		
Baker	27	✓	✓	✓	✓		✓	✓			
Lakelands	28	✓	✓				✓	✓	✓		
Silver Creek	29	✓	✓	✓				✓	✓		
Farquhar	30							✓	✓		
Tilden	31	✓	✓	✓			✓	✓	✓		
Hallie Wells	32	✓	✓	✓			✓	✓	✓		
Parks	33						✓		✓		
Poole	34	✓					✓				
Westland	35	✓	✓	✓			✓	✓	✓		
N. Bethesda	36	✓	✓				✓	✓			
Frost	37	✓	✓	✓	✓		✓	✓	✓		
Cabin John	38	✓	✓	✓			✓	✓	✓		
Hoover	39	✓					✓	✓	✓		
Pyle	40	✓	✓	✓			✓	✓			

Middle School	FARMS Position	Theatre 1 MS	Theatre 2 MS	Theatre 3 MS	MS Dance 1	MS Dance 2	MS Dance 3	MS Dance for Athletes 1	MS Choreography 3	Unified Arts Gr 6/TR	Technical Theatre MS	Dance Fine Art A	Foundation of Art and Culture A	Chorus HS 1A	Concert Band A	Concert Orchestra A	Theatre HS 1A
Key	1	✓	✓	✓													
Odessa Shannon	2	✓	✓														
Montgomery Village	3	✓	✓	✓													
Forest Oak	4																
White Oak	5	✓			✓	✓	✓										
Argyle	6	✓	✓														
Banneker	7																
Neelsville	8																
Parkland	9																
Loiederman	10	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
Eastern	11	✓								✓							
Briggs Chaney	12	✓	✓	✓													
Newport Mill	13																
Gaithersburg	14	✓								✓							
King	15	✓															
Shady Grove	16																
Clemente	17																
Redland	18	✓	✓	✓	✓												
Rocky Hill	19																
Sligo	20	✓	✓	✓													
SSI	21	✓	✓	✓													
Wood	22	✓	✓														
Ridgeview	23	✓	✓														
Julius West	24	✓															
Takoma Park	25	✓	✓	✓													
Kingsview	26	✓	✓		✓												
Baker	27	✓	✓	✓													
Lakelands	28																
Silver Creek	29																
Farquhar	30																
Tilden	31	✓	✓														
Hallie Wells	32																
Parks	33		✓							✓							
Poole	34																
Westland	35																
N. Bethesda	36																
Frost	37																
Cabin John	38																
Hoover	39									✓							
Pyle	40		✓	✓						✓							

Education (EDU)

Middle School	FARMS Position	Creative FACS	FACS Grade 7	FACS Grade 8	Food and Nutrition
Key	1				
Odessa Shannon	2		✓	✓	
Montgomery Village	3				
Forest Oak	4		✓	✓	
White Oak	5				
Argyle	6				
Banneker	7				
Neelsville	8	✓	✓	✓	
Parkland	9				
Loiederman	10				
Eastern	11	✓			
Briggs Chaney	12				
Newport Mill	13				
Gaithersburg	14				
King	15				
Shady Grove	16	✓	✓		✓
Clemente	17				
Redland	18				
Rocky Hill	19				
Sligo	20				
SSI	21	✓	✓	✓	
Wood	22				
Ridgeview	23				
Julius West	24				
Takoma Park	25	✓	✓	✓	
Kingsview	26				
Baker	27	✓	✓	✓	
Lakelands	28				
Silver Creek	29				
Farquhar	30				
Tilden	31		✓	✓	
Hallie Wells	32	✓	✓	✓	
Parks	33				
Poole	34				
Westland	35				
N. Bethesda	36				
Frost	37	✓			
Cabin John	38				
Hoover	39				
Pyle	40	✓	✓	✓	✓

English (ENG)

Middle School	FARMS Position	Contemporary	Grade 6 Adv English	Grade 6 English	Grade 7 Adv English	Grade 7 English	Grade 8 Adv English	Grade 8 English	Humanities English 6	Humanities English 7	Humanities English 8	Humanities Literature 6	Humanities Media 6	Humanities Media 7	Humanities Media 8
Key	1		✓		✓		✓								
Odessa Shannon	2		✓		✓		✓								
Montgomery Village	3		✓		✓		✓								
Forest Oak	4		✓		✓		✓								
White Oak	5		✓		✓		✓								
Argyle	6		✓		✓		✓								
Banneker	7		✓		✓		✓								
Neelsville	8		✓		✓		✓								
Parkland	9		✓	✓	✓	✓	✓								
Loiederman	10		✓		✓		✓								
Eastern	11		✓		✓		✓		✓	✓	✓	✓	✓	✓	✓
Briggs Chaney	12		✓		✓		✓								
Newport Mill	13		✓		✓		✓								
Gaithersburg	14		✓		✓		✓								
King	15		✓		✓		✓		✓	✓	✓		✓	✓	✓
Shady Grove	16		✓		✓		✓								
Clemente	17	✓	✓		✓		✓								
Redland	18		✓		✓		✓	✓							
Rocky Hill	19		✓		✓		✓								
Sligo	20	✓	✓		✓		✓								
SSI	21		✓		✓		✓								
Wood	22		✓		✓		✓								
Ridgeview	23	✓	✓		✓		✓								
Julius West	24		✓	✓	✓	✓	✓	✓							
Takoma Park	25	✓	✓		✓		✓								
Kingsview	26		✓		✓		✓								
Baker	27		✓		✓		✓								
Lakelands	28	✓	✓		✓		✓								
Silver Creek	29		✓		✓		✓								
Farquhar	30		✓		✓		✓								
Tilden	31		✓		✓		✓								
Hallie Wells	32	✓	✓		✓		✓								
Parks	33		✓	✓	✓	✓	✓	✓							
Poole	34		✓		✓		✓								
Westland	35		✓		✓		✓								
N. Bethesda	36		✓		✓		✓								
Frost	37	✓	✓		✓		✓								
Cabin John	38		✓		✓		✓								
Hoover	39	✓	✓		✓		✓								
Pyle	40	✓	✓		✓		✓								

Middle School	FARMS Position	Lights Camera Film Lit	Lights Camera Lit 1	Lights Camera Lit 2	Lights Camera Media Lit	MS Academic Literacy	Developmental Reading 1	Developmental Reading 2	MS Digital Literacy 1	MS Digital Literacy 2	MS Digital Literacy 3	MS Read 180	Humanities Literature 7/8
Key	1					✓			✓	✓		✓	
Odessa Shannon	2					✓	✓		✓			✓	
Montgomery Village	3					✓						✓	
Forest Oak	4	✓		✓			✓	✓				✓	
White Oak	5		✓						✓			✓	
Argyle	6		✓	✓								✓	
Banneker	7						✓	✓				✓	
Neelsville	8					✓		✓				✓	
Parkland	9					✓	✓	✓	✓	✓	✓	✓	
Loiederman	10	✓	✓	✓	✓		✓	✓				✓	
Eastern	11		✓				✓	✓				✓	✓
Briggs Chaney	12					✓	✓	✓	✓			✓	
Newport Mill	13					✓	✓	✓				✓	
Gaithersburg	14						✓					✓	
King	15					✓	✓	✓				✓	
Shady Grove	16							✓				✓	
Clemente	17						✓	✓				✓	
Redland	18						✓	✓				✓	
Rocky Hill	19							✓				✓	
Sligo	20						✓	✓	✓			✓	
SSI	21	✓	✓		✓		✓	✓				✓	
Wood	22						✓				✓	✓	
Ridgeview	23						✓	✓	✓		✓	✓	
Julius West	24					✓	✓	✓				✓	
Takoma Park	25					✓	✓					✓	
Kingsview	26					✓			✓			✓	
Baker	27							✓				✓	
Lakelands	28					✓		✓	✓				
Silver Creek	29					✓	✓		✓	✓		✓	
Farquhar	30					✓			✓				
Tilden	31											✓	
Hallie Wells	32					✓	✓						
Parks	33					✓	✓		✓			✓	
Poole	34					✓			✓			✓	
Westland	35					✓			✓			✓	
N. Bethesda	36					✓	✓		✓			✓	
Frost	37					✓	✓		✓				
Cabin John	38						✓						
Hoover	39											✓	
Pyle	40					✓	✓	✓	✓			✓	

Engineering (ENR)

Middle School	FARMS Position	MS Innovation & Engineering Design	MS Intro to Tech & Engineering	Technology Systems Gr.8	MS Applied Engineering Design	MS Engin. Design & Mod.	Imagineering Technology	CADD Architecture Apps	Innovative Tech. Solu.	Aerospace Design Tech.	Applied Robot Engineer	Applied Robot Prog.	Gateway Tech A/B	Innovative Minds 1	Innovative Minds 2	Intro Robotic Systems	3d Printing & Design
Key	1	✓		✓													
Odessa Shannon	2		✓														
Montgomery Village	3	✓			✓												
Forest Oak	4	✓	✓		✓	✓											
White Oak	5							✓									
Argyle	6		✓	✓	✓				✓					✓	✓		
Banneker	7		✓					✓									
Neelsville	8	✓															
Parkland	9			✓			✓			✓	✓	✓				✓	✓
Loiederman	10			✓													
Eastern	11	✓															
Briggs Chaney	12	✓		✓	✓	✓											
Newport Mill	13																
Gaithersburg	14	✓															
King	15	✓						✓									
Shady Grove	16	✓					✓	✓									
Clemente	17																
Redland	18	✓															
Rocky Hill	19	✓	✓														
Sligo	20																
SSI	21		✓		✓												
Wood	22		✓		✓	✓		✓									
Ridgeview	23	✓	✓		✓												
Julius West	24	✓	✓				✓										
Takoma Park	25	✓	✓			✓	✓										
Kingsview	26			✓	✓												
Baker	27				✓												
Lakelands	28	✓		✓		✓											
Silver Creek	29	✓															
Farquhar	30	✓	✓				✓		✓								
Tilden	31	✓	✓		✓	✓											
Hallie Wells	32	✓	✓														
Parks	33				✓												
Poole	34																
Westland	35																
N. Bethesda	36	✓		✓		✓											
Frost	37																
Cabin John	38	✓	✓	✓					✓								
Hoover	39	✓	✓	✓			✓										
Pyle	40		✓										✓				

Health and Physical Education (HPE)

Middle School	FARMS Position	Health Education Gr.6	Health Education Gr.7	Health Education Gr.8	Physical Education Gr.6	Physical Education Gr.7	Physical Education Gr.6
Key	1	✓	✓	✓	✓	✓	✓
Odessa Shannon	2	✓	✓	✓	✓	✓	✓
Montgomery Village	3	✓	✓	✓	✓	✓	✓
Forest Oak	4	✓	✓	✓	✓	✓	✓
White Oak	5	✓	✓	✓	✓	✓	✓
Argyle	6	✓	✓	✓	✓	✓	✓
Banneker	7	✓	✓	✓	✓	✓	✓
Neelsville	8	✓	✓	✓	✓	✓	✓
Parkland	9	✓	✓	✓	✓	✓	✓
Loiederman	10	✓	✓	✓	✓	✓	✓
Eastern	11	✓	✓	✓	✓	✓	✓
Briggs Chaney	12	✓	✓	✓	✓	✓	✓
Newport Mill	13	✓	✓	✓	✓	✓	✓
Gaithersburg	14	✓	✓	✓	✓	✓	✓
King	15	✓	✓	✓	✓	✓	✓
Shady Grove	16	✓	✓	✓	✓	✓	✓
Clemente	17	✓	✓	✓	✓	✓	✓
Redland	18	✓	✓	✓	✓	✓	✓
Rocky Hill	19	✓	✓	✓	✓	✓	✓
Sligo	20	✓	✓	✓	✓	✓	✓
SSI	21	✓	✓	✓	✓	✓	✓
Wood	22	✓	✓	✓	✓	✓	✓
Ridgeview	23	✓	✓	✓	✓	✓	✓
Julius West	24	✓	✓	✓	✓	✓	✓
Takoma Park	25	✓	✓	✓	✓	✓	✓
Kingsview	26	✓	✓	✓	✓	✓	✓
Baker	27	✓	✓	✓	✓	✓	✓
Lakelands	28	✓	✓	✓	✓	✓	✓
Silver Creek	29	✓	✓	✓	✓	✓	✓
Farquhar	30	✓	✓	✓	✓	✓	✓
Tilden	31	✓	✓	✓	✓	✓	✓
Hallie Wells	32	✓	✓	✓	✓	✓	✓
Parks	33	✓	✓	✓	✓	✓	✓
Poole	34	✓	✓	✓	✓	✓	✓
Westland	35	✓	✓	✓	✓	✓	✓
N. Bethesda	36	✓	✓	✓	✓	✓	✓
Frost	37	✓	✓	✓	✓	✓	✓
Cabin John	38	✓	✓	✓	✓	✓	✓
Hoover	39	✓	✓	✓	✓	✓	✓
Pyle	40	✓	✓	✓	✓	✓	✓

Information Technology (ITC)

Middle School	FARMS Position	Comp Sci Discoveries 1	Comp Sci Discoveries 2	Computer Apps with Analysis	Computer Apps with Analysis TR	Info Comm Tech 6	Info Comm Technology 6 TR	Intro Web Tools	Mag Computer Sci 6	Mag Computer Sci 7	Mag Computer Sci 8	Programming Fundamentals	Website Dev Fundamentals	Advanced Programming and Game Design	Robotic Design 6	Coding Game Development 6	Principles IT Digital Systems 7	Principles IT Cybersecurity 7	Found Computer Sci TE A
Key	1															✓			✓
Odessa Shannon	2																✓	✓	✓
Montgomery	3	✓														✓			
Forest Oak	4					✓									✓	✓	✓	✓	✓
White Oak	5															✓			
Argyle	6			✓				✓				✓		✓	✓	✓		✓	✓
Banneker	7			✓													✓		
Neelsville	8														✓				✓
Parkland	9	✓													✓	✓			
Loiederman	10																		
Eastern	11															✓			
Briggs Chaney	12																		✓
Newport Mill	13														✓	✓	✓	✓	✓
Gaithersburg	14														✓		✓	✓	✓
King	15																		
Shady Grove	16																		
Clemente	17								✓	✓	✓		✓			✓	✓		✓
Redland	18															✓			
Rocky Hill	19															✓		✓	✓
Sligo	20															✓	✓	✓	✓
SSI	21															✓			✓
Wood	22																	✓	✓
Ridgeview	23																✓	✓	✓
Julius West	24	✓	✓													✓			✓
Takoma Park	25								✓	✓	✓				✓	✓			
Kingsview	26	✓													✓	✓	✓		✓
Baker	27	✓	✓			✓													✓
Lakelands	28	✓	✓	✓												✓			✓
Silver Creek	29														✓	✓		✓	✓
Farquhar	30																		
Tilden	31														✓	✓	✓	✓	✓
Hallie Wells	32	✓															✓		✓
Parks	33						✓	✓											
Poole	34				✓		✓												✓
Westland	35																✓		✓
N. Bethesda	36														✓		✓		✓
Frost	37														✓	✓		✓	✓
Cabin John	38			✓															✓
Hoover	39																		
Pyle	40															✓	✓		✓

Math (MAT)

Middle School	FARMS Position	Accelerated Math 7+	Algebra I A/B	Grade 8 Math	Accelerated Math 6+	Honors Geometry A/B	Grade 6 Math	Grade 7 Math	Math 180	Applied Investigation Math 6	Math Appl. Concepts Tier 2	Math Appl. Concepts Tier 1	Hon. Algebra 2 A/B	Mag Investigations in Math	Mag Geometry A/B
Key	1	✓	✓	✓		✓	✓	✓		✓					
Odessa Shannon	2	✓	✓	✓											
Montgomery Village	3	✓	✓	✓	✓		✓	✓		✓	✓				
Forest Oak	4	✓	✓	✓	✓	✓	✓	✓	✓	✓					
White Oak	5	✓	✓	✓	✓	✓			✓		✓	✓	✓		
Argyle	6	✓	✓		✓	✓						✓			
Banneker	7	✓	✓	✓	✓	✓	✓	✓		✓					
Neelsville	8	✓	✓	✓	✓	✓	✓	✓			✓				
Parkland	9	✓	✓	✓	✓	✓	✓	✓		✓					
Loiederman	10	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓			
Eastern	11	✓	✓	✓	✓	✓	✓	✓		✓	✓				
Briggs Chaney	12	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Newport Mill	13	✓	✓	✓	✓	✓	✓	✓							
Gaithersburg	14	✓	✓	✓	✓	✓	✓	✓	✓		✓				
King	15	✓	✓	✓	✓	✓	✓	✓	✓						
Shady Grove	16	✓	✓	✓	✓	✓	✓	✓							
Clemente	17	✓	✓	✓	✓	✓	✓	✓						✓	✓
Redland	18	✓	✓	✓	✓	✓	✓	✓	✓						
Rocky Hill	19	✓	✓	✓	✓	✓	✓	✓		✓					
Sligo	20	✓	✓	✓	✓	✓	✓	✓			✓	✓			
SSI	21	✓	✓	✓	✓	✓	✓	✓	✓						
Wood	22	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓			
Ridgeview	23	✓	✓	✓		✓	✓	✓							
Julius West	24	✓	✓	✓	✓	✓	✓	✓			✓				
Takoma Park	25	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
Kingsview	26	✓	✓	✓	✓	✓	✓	✓		✓					
Baker	27	✓	✓	✓	✓	✓	✓	✓	✓						
Lakelands	28	✓	✓	✓	✓	✓									
Silver Creek	29	✓	✓	✓	✓	✓	✓	✓		✓					
Farquhar	30	✓	✓	✓	✓	✓			✓						
Tilden	31	✓	✓	✓	✓	✓	✓	✓							
Hallie Wells	32	✓	✓	✓	✓	✓	✓	✓	✓						
Parks	33	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Poole	34	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Westland	35	✓	✓	✓	✓	✓	✓	✓		✓					
N. Bethesda	36	✓	✓	✓	✓	✓	✓	✓	✓						
Frost	37	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓		
Cabin John	38	✓	✓	✓	✓	✓			✓						
Hoover	39	✓	✓	✓	✓	✓			✓						
Pyle	40	✓	✓	✓	✓	✓	✓	✓	✓						

Science (SCI)

Middle School	FARMS Position	Magnet Investigations Science 6	Magnet Investigations Science 7	Magnet Investigations Science 8	Mission Earth	Principles of Flight	Unmanned Space Exploration.	Comp. Planet Orb	Human Space Exploration	Investigations In Earth Science	Investigations In Life Science	Science of Sports & Rec	Investigations In Phys. Science	Honors Physics A/B	Astronomy A/B	Earth Systems and Sustainability A/B
Key	1									✓	✓		✓			
Odessa Shannon	2									✓	✓		✓			
Montgomery Vlg	3									✓	✓		✓			
Forest Oak	4									✓	✓		✓			
White Oak	5									✓	✓		✓			
Argyle	6									✓	✓		✓			
Banneker	7									✓	✓		✓			
Neelsville	8									✓	✓		✓			
Parkland	9				✓	✓	✓	✓	✓				✓	✓	✓	✓
Loiederman	10									✓	✓		✓			
Eastern	11									✓	✓		✓			
Briggs Chaney	12									✓	✓		✓			
Newport Mill	13									✓	✓		✓			
Gaithersburg	14									✓	✓		✓			
King	15									✓	✓		✓			
Shady Grove	16									✓	✓		✓			
Clemente	17	✓	✓	✓						✓	✓		✓			
Redland	18									✓	✓		✓			
Rocky Hill	19									✓	✓		✓			
Sligo	20									✓	✓		✓			
SSI	21									✓	✓		✓			
Wood	22									✓	✓		✓			
Ridgeview	23									✓	✓		✓			
Julius West	24									✓	✓		✓			
Takoma Park	25	✓	✓	✓						✓	✓		✓			
Kingsview	26									✓	✓	✓	✓			
Baker	27									✓	✓		✓			
Lakelands	28									✓	✓		✓			
Silver Creek	29									✓	✓		✓			
Farquhar	30									✓	✓		✓			
Tilden	31									✓	✓		✓			
Hallie Wells	32									✓	✓		✓			
Parks	33									✓	✓		✓			
Poole	34									✓	✓		✓			
Westland	35									✓	✓		✓			
N. Bethesda	36									✓	✓		✓			
Frost	37									✓	✓		✓			
Cabin John	38									✓	✓		✓			
Hoover	39									✓	✓		✓			
Pyle	40									✓	✓		✓			

Social Studies (SOC)

Middle School	FARMS Position	Hist. Inquiry Global Hum 6	Hist. Inquiry Global Hum 7	Hist Inquiry Amer Stud. 8	Hist. Inquiry World Study 6	Hist. Inquiry World Study 7	Hist. Inquiry US History 8	Adv. US History 8	MS Model UN	Humanities US History 8	Humanities World Study 6	Humanities World Study 7	World Studies Gr.7	US History 8	Student Court 7	Student Court 8	MS African Amer. Studies
Key	1	✓	✓	✓	✓	✓	✓										
Odessa Shannon	2	✓	✓	✓	✓	✓	✓										
Montgomery Village	3	✓	✓	✓	✓	✓	✓										
Forest Oak	4	✓	✓	✓	✓	✓	✓										
White Oak	5	✓	✓	✓	✓												
Argyle	6	✓				✓								✓			
Banneker	7	✓	✓	✓	✓	✓	✓										✓
Neelsville	8	✓	✓	✓	✓	✓	✓										
Parkland	9	✓	✓	✓	✓	✓	✓										
Loiederman	10	✓	✓	✓	✓	✓	✓										
Eastern	11	✓	✓			✓	✓	✓		✓	✓	✓					
Briggs Chaney	12	✓	✓	✓	✓	✓	✓										
Newport Mill	13	✓	✓	✓	✓	✓	✓										
Gaithersburg	14	✓	✓	✓	✓				✓								
King	15					✓	✓			✓	✓	✓					
Shady Grove	16	✓	✓	✓	✓	✓	✓										
Clemente	17	✓	✓	✓	✓		✓										
Redland	18	✓	✓	✓	✓			✓					✓				
Rocky Hill	19	✓	✓	✓	✓	✓	✓										
Sligo	20	✓	✓	✓	✓	✓	✓										
SSI	21	✓	✓	✓	✓		✓		✓								
Wood	22	✓	✓	✓	✓	✓		✓							✓	✓	
Ridgeview	23	✓	✓	✓	✓	✓	✓										
Julius West	24	✓	✓	✓	✓	✓	✓										
Takoma Park	25	✓	✓	✓	✓												
Kingsview	26	✓	✓	✓	✓	✓	✓	✓	✓								
Baker	27	✓	✓	✓	✓	✓	✓	✓									
Lakelands	28	✓	✓	✓	✓	✓	✓	✓									
Silver Creek	29	✓	✓	✓	✓	✓		✓									
Farquhar	30	✓	✓	✓	✓	✓		✓									
Tilden	31	✓	✓	✓	✓	✓	✓										
Hallie Wells	32	✓	✓	✓	✓	✓	✓										
Parks	33	✓	✓	✓	✓	✓	✓										
Poole	34	✓	✓	✓	✓	✓	✓										
Westland	35	✓	✓	✓	✓	✓	✓										
N. Bethesda	36	✓	✓	✓	✓	✓	✓										
Frost	37	✓	✓	✓	✓												
Cabin John	38	✓	✓	✓	✓												
Hoover	39	✓	✓	✓	✓		✓										
Pyle	40	✓	✓	✓	✓	✓	✓										

Technology Education (TEC)

Middle School	FARMS Position	Gateway Medical Detectives	Foundations of Engineering and Technology A/B	Introduction to Engineering Design A/B
Key	1			
Odessa Shannon	2			
Montgomery Village	3			✓
Forest Oak	4			
White Oak	5			✓
Argyle	6		✓	✓
Banneker	7			✓
Neelsville	8			✓
Parkland	9			✓
Loiederman	10			
Eastern	11			
Briggs Chaney	12			
Newport Mill	13			
Gaithersburg	14	✓		
King	15			✓
Shady Grove	16			✓
Clemente	17			✓
Redland	18			✓
Rocky Hill	19			✓
Sligo	20			
SSI	21			
Wood	22			✓
Ridgeview	23			✓
Julius West	24		✓	
Takoma Park	25		✓	
Kingsview	26			
Baker	27			
Lakelands	28			✓
Silver Creek	29			✓
Farquhar	30			✓
Tilden	31		✓	
Hallie Wells	32			✓
Parks	33			✓
Poole	34			✓
Westland	35			✓
N. Bethesda	36			
Frost	37			
Cabin John	38			
Hoover	39		✓	
Pyle	40			✓

World Languages (WLG)

Middle School	FARMS Position	Awareness Lang Culture	MS FY Chinese 1A/B	Chinese 1A/B	Chinese 2A/B	Hon Chinese 3A/B	Chinese Lang Immers 1A/B	MS FY French 1A/B	French 1A/B	French 2A/B	French 3A/B	Hon French 3A/B	French Lang Immers 1A/B	French Lang Immers 2A/B	French Lang Immers 3A/B
Key	1								✓	✓		✓			
Odessa Shannon	2							✓	✓	✓					
Montgomery Village	3								✓	✓		✓			
Forest Oak	4								✓	✓					
White Oak	5								✓	✓		✓			
Argyle	6								✓	✓					
Banneker	7							✓	✓	✓		✓			
Neelsville	8							✓	✓			✓			
Parkland	9							✓	✓	✓		✓			
Loiederman	10								✓	✓		✓			
Eastern	11								✓	✓					
Briggs Chaney	12								✓	✓	✓				
Newport Mill	13											✓			
Gaithersburg	14								✓	✓		✓	✓	✓	✓
King	15								✓	✓	✓				
Shady Grove	16							✓		✓					
Clemente	17								✓	✓		✓			
Redland	18									✓					
Rocky Hill	19							✓	✓						
Sligo	20							✓	✓	✓					
SSI	21								✓	✓		✓	✓	✓	✓
Wood	22								✓						
Ridgeview	23	✓							✓	✓					
Julius West	24	✓	✓		✓			✓	✓	✓		✓			
Takoma Park	25							✓	✓	✓		✓			
Kingsview	26							✓							
Baker	27														
Lakelands	28							✓							
Silver Creek	29								✓	✓		✓			
Farquhar	30								✓	✓					
Tilden	31			✓				✓	✓	✓					
Hallie Wells	32		✓		✓			✓		✓					
Parks	33								✓	✓					
Poole	34														
Westland	35								✓	✓		✓			
N. Bethesda	36							✓		✓					
Frost	37			✓	✓	✓			✓	✓		✓			
Cabin John	38		✓		✓			✓		✓					
Hoover	39			✓	✓	✓	✓		✓	✓		✓			
Pyle	40			✓	✓			✓	✓	✓		✓			

Middle School	FARMS Position	MS FY Spanish 1A/B	Spanish 1A/B	Spanish 2A/B	Spanish 3A/B	Hon. Spanish 3A/B	NC Spanish	Spanish for Spanish 1A/B	Spanish for Spanish 2A/B	Spanish Lang Immers.1A/B	Spanish Lang Immers 2A/B	Spanish Lang Immers 3A/B	Spanish Literacy 1A/B
Key	1	✓	✓	✓		✓							
Odessa Shannon	2	✓	✓	✓				✓		✓	✓	✓	✓
Montgomery Village	3		✓	✓		✓		✓					✓
Forest Oak	4	✓	✓	✓		✓		✓	✓				✓
White Oak	5		✓	✓		✓				✓	✓		
Argyle	6		✓	✓	✓			✓	✓				✓
Banneker	7	✓	✓	✓		✓		✓					
Neelsville	8	✓	✓			✓		✓					
Parkland	9	✓	✓	✓		✓		✓					✓
Loiederman	10		✓	✓		✓	✓	✓	✓				✓
Eastern	11		✓	✓				✓	✓				✓
Briggs Chaney	12		✓	✓		✓							
Newport Mill	13		✓	✓		✓		✓		✓			✓
Gaithersburg	14		✓	✓		✓		✓	✓	✓	✓		
King	15		✓	✓		✓							✓
Shady Grove	16	✓	✓	✓				✓					✓
Clemente	17		✓	✓		✓		✓					
Redland	18	✓						✓					
Rocky Hill	19		✓	✓									✓
Sligo	20	✓	✓	✓		✓							
SSI	21		✓	✓		✓		✓		✓	✓	✓	
Wood	22		✓	✓		✓		✓					✓
Ridgeview	23		✓	✓		✓		✓					
Julius West	24	✓	✓	✓		✓			✓				✓
Takoma Park	25	✓	✓	✓		✓							
Kingsview	26	✓	✓	✓									
Baker	27	✓	✓	✓									
Lakelands	28	✓	✓	✓						✓	✓		
Silver Creek	29		✓	✓		✓							
Farquhar	30		✓	✓									
Tilden	31	✓	✓	✓		✓							
Hallie Wells	32	✓	✓	✓									
Parks	33	✓	✓	✓		✓							
Poole	34		✓	✓									
Westland	35		✓	✓		✓				✓	✓	✓	
N. Bethesda	36	✓	✓	✓									
Frost	37		✓	✓		✓							
Cabin John	38	✓	✓	✓		✓							
Hoover	39	✓	✓	✓		✓							
Pyle	40	✓	✓	✓		✓							

Appendix E

Summary of Enrollment, Percent of Students Enrolled and Average Enrollment by Course

The following appendix provides a detailed summary of all courses with any **enrollments in Spring 2025**. Each course data includes the number of schools that offer the courses, the total number of students enrolled in the course, the percentage of students enrolled in schools that offer the course, and the average number of students enrolled in each school that offers the course.

The data includes the following caveats:

- Course tables are organized by subject area – middle and high school courses are included in the same table;
- Courses are listed in numerical order by course code number within each table;
- Courses with an A and B component were combined;
- Courses at Thomas Edison High School are not included in this inventory; and
- ALO and EML courses are not included in this inventory.

Environmental, Agriculture, and Natural Resources (ABG)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
AGB2002A	Plant Production A	1		19		1,390		1.37%		19	
AGB2007A	Found Horticulture A	1		51		1,390		3.67%		51	
AGB2008A	Landscape Design Management A	1		8		1,390		0.58%		8	
AGB2010	Intern Environ	1		8		1,390		0.58%		8	
AGB2015A	Agriculture, Food, and Natural Resources A	2		71		3,329		2.13%		36	
AGB2016A	Natural Resources and Ecology A	2		29		3,329		0.87%		15	
AGB2017A	Environmental Science Issues A	1		4		1,654		0.24%		4	
AGB5118	CE Adv Landscape	1		1		2,794		0.04%		1	

Arts, Media, and Communications (AMC)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
AMC1000	Intro Digital Publish		1		33		868		3.80%		33
AMC1001	Intro Digital Media		1		104		868		11.98%		104
AMC1004	TV Studio		14		1,419		12,791		11.09%		101
AMC2004A	Video Production A	8		121		15,865		0.76%		15	
AMC2005A	Elec Video Field Production A	6		37		11,817		0.31%		6	
AMC2006A	Media Station Management Prod A	2		13		3,998		0.33%		7	
AMC2007A	Intro Interactive Media A	7		242		14,258		1.70%		35	
AMC2008A	Research Art Media A	4		24		7,899		0.30%		6	
AMC2009	Intern Art Media	3		29		6,018		0.48%		10	
AMC2010	CAP Writing News	1		91		3,266		2.79%		91	
AMC2011	CAP TV Studio Production	1		89		3,266		2.73%		89	
AMC2013A	CAP Adv Production A	1		57		3,266		1.75%		57	
AMC2016A	Game Development A	2		81		4,060		2.00%		41	
AMC2017A	Adv Game Development A	2		27		4,060		0.67%		14	
AMC5113	CE Adv Graphic Design	7		11		14,876		0.07%		2	
AMC5120	CE Adv Media	2		3		4,020		0.07%		2	

Art (ART)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
ART1007A	Innovative Art & Design 2A		6		435		5,236		8.31%		73
ART1008A	Innovative Art & Design 1A		7		538		5,831		9.23%		77
ART1016A	Innovative Art & Design 3A		7		566		6,666		8.49%		81
ART1018	MS Dig Art Photography 1		18		1,955		16,382		11.93%		109
ART1018T	MS Dig Art Photography 1 TR		1		165		682		24.19%		165
ART1019	MS Dig Art Photography 2		14		1,507		12,629		11.93%		108
ART1020	MS Photography 3		2		183		1,856		9.86%		92
ART1022	MS Digital Art 3		12		908		11,179		8.12%		76
ART1023	MS Draw 2D Art 3		6		476		6,313		7.54%		79
ART1024	MS Studio Art 1		33		4,688		29,961		15.65%		142
ART1024T	MS Studio Art 1 TR		3		419		2,012		20.83%		140
ART1025	MS Studio Art 2		36		3,846		32,436		11.86%		107
ART1025T	MS Studio Art 2 TR		1		97		467		20.77%		97
ART1026	MS Studio Art 3		29		2,412		25,934		9.30%		83
ART1030	General Music MS 1		23		2,583		20,555		12.57%		112
ART1031	General Music MS 2		8		410		7,243		5.66%		51
ART1032	General Music MS 3		4		145		3,599		4.03%		36
ART1033A	Band 1 MS & Creative Thinking A		36		1,758		32,368		5.43%		49
ART1034	Band 2 MS		37		1,426		33,382		4.27%		39
ART1035	Band 3 MS		30		1,141		27,253		4.19%		38
ART1037A	Beginning Band MS & Creative Thinking A		11		375		8,681		4.32%		34
ART1038A	Beginning Orchestra MS & Cr Th A		10		233		7,624		3.06%		23
ART1039	MS Ceramic Sculpture 3		12		1,362		11,858		11.49%		114
ART1040A	Chorus MS Creative Thinking & Singing 1A		36		1,632		31,946		5.11%		45
ART1041	Chorus MS 2		30		1,348		27,464		4.91%		45
ART1042	Chorus MS 3		25		973		22,597		4.31%		39

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
ART1043	Guitar MS 1		10		399		9,357		4.26%		40
ART1044	Guitar MS 2		5		149		5,351		2.78%		30
ART1045A	Orchestra 1 MS & Creative Thinking A		35		1,338		31,456		4.25%		38
ART1046	Orchestra 2 MS		38		1,328		34,392		3.86%		35
ART1047	Orchestra 3 MS		23		547		20,603		2.65%		24
ART1048	Piano MS 1		4		263		3,468		7.58%		66
ART1049	Piano MS 2		3		58		2,816		2.06%		19
ART1061	Theatre 1 MS		20		2,090		18,144		11.52%		105
ART1062	Theatre 2 MS		17		796		15,420		5.16%		47
ART1063	Theatre 3 MS		10		436		9,105		4.79%		44
ART1064	MS Dance 1		4		294		3,256		9.03%		74
ART1065	MS Dance 2		2		169		1,786		9.46%		85
ART1066	MS Dance 3		2		94		1,786		5.26%		47
ART1067	MS Dance for Athletes 1		1		28		978		2.86%		28
ART1068	MS Choreography 3		1		57		978		5.83%		57
ART1070	Unified Arts Gr 6		4		367		4,021		9.13%		92
ART1070T	Unified Arts Gr6 TR		1		138		863		15.99%		138
ART1081	Technical Theatre MS		1		24		978		2.45%		24
ART2000A	Dance Fine Art A	8	1	216	83	17,472	978	1.24%	8.49%	27	83
ART2001A	Foundation of Art and Culture A	13	1	2,353	74	28,569	978	8.24%	7.57%	181	74
ART2003A	Dance 2A	5		98		10,279		0.95%	0.00%	20	
ART2004A	Dance 3A	3		58		5,605		1.03%	0.00%	19	
ART2005A	Modern Dance A	2		37		3,492		1.06%	0.00%	19	
ART2009A	Hip Hop Dance A	2		111		3,614		3.07%	0.00%	56	
ART2010A	Dance Company A	4		64		8,399		0.76%	0.00%	16	
ART2016A	Choreography 1A	2		25		3,951		0.63%	0.00%	13	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
ART2017A	NC Foundation of Art A	5		109		9,332		1.17%	0.00%	22	
ART2018A	IB Art Design 1A	8		102		15,988		0.64%	0.00%	13	
ART2019	Adv Drawing 2	1		1		2,794		0.04%	0.00%	1	
ART2020	Adv Contemporary Mixed Media 2	1		1		2,794		0.04%	0.00%	1	
ART2021A	IB Art Design 2A	7		37		14,438		0.26%		5	
ART2022A	Fashion Illustration 1A	7		331		15,057		2.20%		47	
ART2023A	Fashion Production 1A	3		264		6,586		4.01%		88	
ART2024A	Adv Fashion Production 2A	3		59		6,586		0.90%		20	
ART2030A	Adv Fashion Illustration 2A	4		16		7,895		0.20%		4	
ART2031A	Adv 2D Studio Art 2A	24		583		49,959		1.17%		24	
ART2032A	2D Studio Art 3A	19		144		39,881		0.36%		8	
ART2033A	2D Studio Art 4A	9		29		18,152		0.16%		3	
ART2034A	Adv Photography 3A	15		85		33,743		0.25%		6	
ART2035A	Adv Photography 4A	3		8		6,446		0.12%		3	
ART2036	CAP Photography	1		79		3,266		2.42%		79	
ART2037A	Darkroom Photography A	2		126		4,401		2.86%		63	
ART2038A	Photography 1A	25		3,369		51,997		6.48%		135	
ART2039A	Adv Photography 2A	23		377		48,289		0.78%		16	
ART2040A	AP 2D Photography A	14		110		30,844		0.36%		8	
ART2041A	AP 2D Photography A DP	1		3		3,016		0.10%		3	
ART2042A	2D Studio Art 1A	24		2,543		50,159		5.07%		106	
ART2043A	Adv Painting 2A	3		57		7,502		0.76%		19	
ART2044A	Adv Printmaking 2A	1		5		3,266		0.15%		5	
ART2045A	Ceramic Sculpture 1A	25		5,165		51,997		9.93%		207	
ART2046A	Adv Ceramic Sculpture 2A	25		960		51,997		1.85%		38	
ART2047A	Adv Ceramic Sculpture 3A	24		237		50,117		0.47%		10	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
ART2048A	Adv Ceramic Sculpture 4A	9		28		20,363		0.14%		3	
ART2049A	Adv Functional Craft 2A	2		3		5,675		0.05%		2	
ART2050A	Graphic Art & Design 1A	2		128		3,631		3.53%		64	
ART2051A	Adv Graphic Art & Design 2A	2		30		3,631		0.83%		15	
ART2052A	Art History A	1		14		1,390		1.01%		14	
ART2053A	Functional Fine Art & Craft 1A	8		856		19,341		4.43%		107	
ART2054A	AP Art History A	9		265		20,030		1.32%		29	
ART2055A	Visual Art Level 2A DP	1		32		1,991		1.61%		32	
ART2056A	AP Visual Art Center 3A DP	1		25		1,991		1.26%		25	
ART2057A	AP Visual Art Center 4A DP	1		34		1,991		1.71%		34	
ART2059A	Digital Art 3A	10		54		21,470		0.25%		5	
ART2060A	Adv Digital Art 4A	1		1		3,266		0.03%		1	
ART2061A	Adv Animation 2A	3		59		7,329		0.81%		20	
ART2062A	AP Drawing A	15		150		30,740		0.49%		10	
ART2063A	AP Drawing A DP	7		50		15,769		0.32%		7	
ART2064A	AP 2D Art & Design A	20		196		43,028		0.46%		10	
ART2065	AP 2D Art & Design DP	5		58		11,537		0.50%		12	
ART2066A	AP 3D Art & Design A	15		102		30,742		0.33%		7	
ART2067	AP 3D Art & Design DP	3		19		6,986		0.27%		6	
ART2068A	Visual Art Level 1A DP	1		33		1,991		1.66%		33	
ART2069A	Digital Art 1A	21		1,918		45,145		4.25%		91	
ART2070A	Adv Digital Art 2A	17		286		37,326		0.77%		17	
ART2071A	Piano HS 1A	21		1,026		45,715		2.24%		49	
ART2072A	Piano HS 2A	20		171		43,274		0.40%		9	
ART2073A	Piano HS 3A	6		21		13,823		0.15%		4	
ART2074A	Piano HS 4A	4		6		9,450		0.06%		2	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
ART2075A	Music Theory Comp 1A	2		7		3,231		0.22%		4	
ART2076A	AP Music Theory A	14		253		29,316		0.86%		18	
ART2078A	Music Perspectives A	3		17		6,044		0.28%		6	
ART2079A	IB Adv Music 1A	2		24		4,257		0.56%		12	
ART2080A	Guitar HS 3A	11		43		24,343		0.18%		4	
ART2081A	Guitar HS 4A	5		12		13,157		0.09%		2	
ART2082A	Guitar HS 1A	23		977		47,875		2.04%		42	
ART2083A	Guitar HS 2A	19		203		39,949		0.51%		11	
ART2084A	Music Technology A	9		282		20,896		1.35%		31	
ART2085	NC Chorus	1		22		1,671		1.32%		22	
ART2087A	Chorus HS 1A	21	1	582	33	44,775	978	1.30%	3.37%	28	33
ART2088A	Chorus HS 2A	16		234		34,706		0.67%		15	
ART2089A	Chorus HS 3A	15		268		33,614		0.80%		18	
ART2090A	Chamber Singers A	18		455		38,518		1.18%		25	
ART2091A	Show Choir A	7		155		16,657		0.93%		22	
ART2092A	Beginning Band HS A	6		107		11,318		0.95%		18	
ART2093A	Concert Band A	21	1	587	18	43,473	978	1.35%	1.84%	28	18
ART2094A	Symphonic Band A	21		704		42,876		1.64%		34	
ART2096A	Beginning Orchestra HS A	2		10		3,614		0.28%		5	
ART2097A	Concert Orchestra A	20	1	421	22	43,671	978	0.96%	2.25%	21	22
ART2099A	Symphonic Orchestra A	20		591		41,878		1.41%		30	
ART2100A	Jazz Ensemble A	18		335		38,612		0.87%		19	
ART2102	Intro Dramatics	1		80		3,266		2.45%		80	
ART2103A	Adv Acting A	12		60		26,184		0.23%		5	
ART2104A	Stage Design A	11		77		25,376		0.30%		7	
ART2105A	Play Directing A	9		16		21,037		0.08%		2	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
ART2106A	Theatre HS 1A	21	1	479	86	45,369	978	1.06%	8.79%	23	86
ART2107A	Theatre HS 2A	20		137		42,353		0.32%		7	
ART2108A	Product and Perform A	3		52		7,693		0.68%		17	
ART2110A	IB Film 1A	5		109		10,609		1.03%		22	
ART2111A	IB Film 2A	4		45		9,032		0.50%		11	
ART2124A	IB Dance 1A	2		18		4,257		0.42%		9	
ART2125A	IB Dance 2A	1		10		1,880		0.53%		10	
ART2126A	IB Theatre 1A	5		46		10,484		0.44%		9	
ART2127A	IB Theatre 2A	5		19		10,484		0.18%		4	
ART2150A	Jazz Lab Band A	3		45		5,483		0.82%		15	
ART2151A	Adv Fashion Production 3A	3		22		6,586		0.33%		7	
ART2153A	Musical Theatre A	5		52		11,436		0.45%		10	
ART2154A	Wind Ensemble A	10		384		22,680		1.69%		38	
ART2155A	Philharmonic Orchestra A	8		318		17,021		1.87%		40	
ART2176	Art and Social Justice	1		32		2,056		1.56%		32	
ART2177	Color Guard	2		30		3,614		0.83%		15	
ART5107	CE Adv Dance	1	0	1	0	1,654	0	0.06%	0.00%	1	
ART5117	CE Adv Integrated Arts	8	0	79	0	17,927	0	0.44%	0.00%	10	
ART5127	CE Adv Theater	3	0	4	0	6,139	0	0.07%	0.00%	1	
ART5128	CE Adv Visual Art	13	0	49	0	26,320	0	0.19%	0.00%	4	

Health Professions and Biosciences (BHP)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
BHP2000A	Human Body Systems A	3		242		6,785		3.57%		81	
BHP2001A	Fund of Pharmacy A	3		63		6,322		1.00%		21	
BHP2002A	Molecular Biotechnology A DP	1		32		2,300		1.39%		32	
BHP2003	Intern Bioscience Health Medicine	1		2		1,880		0.11%		2	
BHP2004A	Special Topics Biotechnology A	1		17		2,300		0.74%		17	
BHP2007A	Prin Biomedical Science A	2		53		4,344		1.22%		27	
BHP2008A	Biomedical Innovation A	3		154		6,785		2.27%		51	
BHP2009A	Physical Rehab Science A	2		40		4,122		0.97%		20	
BHP2010A	Medical Science Clinical Applications A DP	3		75		5,593		1.34%		25	
BHP2011A	AHP Allied Health Intern A	7		187		13,492		1.39%		27	
BHP2014A	Structure Function Human Body A	7		514		13,492		3.81%		73	
BHP2015A	Found Medic Health Sci A	7		724		13,492		5.37%		103	
BHP2016A	Medical Interventions A	3		184		6,785		2.71%		61	
BHP2017	Intern Medical Careers	2		28		3,918		0.71%		14	
BHP2019A	Cert Clinical Medic Asst A	4		175		7,904		2.21%		44	
BHP2022A	Prin Biomedical Science A	3		252		6,785		3.71%		84	
BHP5123	CE Adv Science	19		534		40,417		1.32%		28	
BHP5124	CE Adv Earth Science	3		3		6,722		0.04%		1	

Business, Management and Finance (BMF)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
BMF2004A	Adv Business Management A	4		52		7,956		0.65%		13	
BMF2005	Financial Plan	4		192		8,000		2.40%		48	
BMF2006	Banking and Credit	4		294		8,000		3.67%		74	
BMF2008	International Finance	4		79		8,000		0.99%		20	
BMF2009A	Accounting A	8		348		16,847		2.07%		44	
BMF2010A	Hon Adv Accounting A	1		9		3,266		0.28%		9	
BMF2014	International Business	1		112		2,056		5.45%		112	
BMF2016A	IB Business Management 1A	3		117		5,866		1.99%		39	
BMF2017A	IB Business Management 2A	1		8		2,409		0.33%		8	
BMF2018	NAF Prin of Finance	4		293		8,000		3.66%		73	
BMF2019	NAF Applied Finance	4		87		8,000		1.09%		22	
BMF2020	NAF Entrepreneurship	4		120		8,000		1.50%		30	
BMF2021A	Business Management Capstone A	1		5		1,880		0.27%		5	
BMF2025A	Marketing A	6		301		13,491		2.23%		50	
BMF2026A	Entrepreneur 1A	8		766		16,899		4.53%		96	
BMF2027	Intern Business	4		64		9,262		0.69%		16	
BMF2028A	Adv Marketing A	2		5		4,920		0.10%		3	
BMF2029	Intern NAF	2		89		3,662		2.43%		45	
BMF2030A	NAF Prin of Accounting A	2		72		4,029		1.79%		36	
BMF2079	AP Microeconomics BMF	2		40		4,112		0.97%		20	
BMF2080	AP Macroeconomics BMF	2		41		4,112		1.00%		21	
BMF5100	CE Adv Accounting	8		40		17,433		0.23%		5	
BMF5102	CE Adv Business	19		190		40,834		0.47%		10	
BMF5103	CE Adv Computer Apps	8		14		16,004		0.09%		2	
BMF5108	CE Adv Economics	16		94		35,050		0.27%		6	

Consumer Services, Hospitality and Tourism (CHT)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
CHT2000A	Int Cultures Cuisines A	2		77		3,346		2.30%		39	
CHT2001	Intern Hospitality Tour	4		63		7,050		0.89%		16	
CHT2002A	Restaurant Management 1A	1		28		2,038		1.37%		28	
CHT2003A	Restaurant Management 1A DP	1		27		2,038		1.32%		27	
CHT2004A	Cul Essentials A	1		10		1,675		0.60%		10	
CHT2005	Intern Hosp Tourism Management Program	4		47		8,673		0.54%		12	
CHT2006A	Restaurant Management 2A	1		13		2,038		0.64%		13	
CHT2009A	Restaurant Management 2A DP	1		14		2,038		0.69%		14	
CHT2010A	Food Trends A	1		179		2,038		8.78%		179	
CHT2017A	Prin Hospitality Tourism A	7		615		14,052		4.38%		88	
CHT2019A	Marketing Hospitality A	1		29		3,016		0.96%		29	
CHT2025A	Hospitality Tourism Management A	7		204		14,052		1.45%		29	

Construction (CON)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
CON2001A	HVAC 1A	1		18		2,409		0.75%		18	
CON2005A	Carpentry 1A	1		10		2,409		0.42%		10	
CON2018A	Construction Tech A	2		73		3,799		1.92%		37	
CON2020A	Carpentry 2A DP	1		3		2,409		0.12%		3	
CON2022A	Electricity Const 1A	1		22		2,409		0.91%		22	
CON2022B	Electricity Const 1B	1		21		2,409		0.87%		21	
CON2024A	Electricity Const 2A DP	1		8		2,409		0.33%		8	
CON2044A	HVAC 2A DP	1		7		2,409		0.29%		7	
CON2050A	Intro Construction Design Management A	1		74		2,409		3.07%		74	
CON2051A	Prin of Construction Design A	1		39		2,409		1.62%		39	
CON2052A	Adv Construction Management A	1		19		2,409		0.79%		19	
CON2064A	Adv Design and 3D Modeling A	1		33		2,409		1.37%		33	
CON2065	Construction Design & Management Internship	1		4		2,409		0.17%		4	
CON5105	CE Adv Construction	7		14		16,156		0.09%		2	

Education (EDU)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
EDU1000	Creative FACS		9		1,202		8,396		14.32%		134
EDU1002	FACS Grade 7		10		1,154		9,368		12.32%		115
EDU1003	FACS Grade 8		9		868		8,854		9.80%		96
EDU1004	Food and Nutrition		2		243		1,773		13.71%		122
EDU2000A	Human Growth and Development Adolescents A	4		175		7,669		2.28%		44	
EDU2009A	Fundamentals Curriculum Instruction A	2		7		3,871		0.18%		4	
EDU2010A	Teaching as Profession A	4		58		7,669		0.76%		15	
EDU2013	Adv Intern Education	9		140		19,097		0.73%		16	
EDU2014	TAM Education Academy Intern	1		18		1,880		0.96%		18	
EDU2016A	Cosmetology 1A TP	1		36		2,441		1.47%		36	
EDU2017A	Cosmetology 3A TP	1		20		2,441		0.82%		20	
EDU2018A	Cosmetology 2A TP	1		33		2,441		1.35%		33	
EDU2027A	Adv Guided Research Education A	6		60		12,790		0.47%		10	
EDU2028	Child Development Assoc Intern	10		242		22,133		1.09%		24	
EDU2029A	Child Growth and Development A	18		1,475		38,426		3.84%		82	
EDU2031A	Learning Environment Preschoolers A	18		515		38,426		1.34%		29	
EDU2032A	Child Dev Assoc Portfolio A	12		176		25,636		0.69%		15	
EDU5109	CE Adv Education	7		8		15,710		0.05%		1	
EDU5110	CE Adv Child Development Assoc	1		1		3,266		0.03%		1	

English (ENG)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
ENG1009	Grade 6 English		3		503		3,413		14.74%		168
ENG1010	Grade 6 Adv English		40		10,664		35,544		30.00%		267
ENG1011	Grade 7 English		3		443		3,413		12.98%		148
ENG1012	Grade 7 Adv English		40		10,681		35,544		30.05%		267
ENG1013	Grade 8 English		3		380		2,790		13.62%		127
ENG1014	Grade 8 Adv English		40		11,002		35,544		30.95%		275
ENG1017	MS Read 180		35		3,031		31,040		9.76%		87
ENG1022	Contemporary Communication		9		762		8,500		8.96%		85
ENG1023	Lights Camera Film Lit		3		258		2,821		9.15%		86
ENG1024	Lights Camera Lit 1		5		409		4,632		8.83%		82
ENG1026	Lights Camera Lit 2		3		278		2,674		10.40%		93
ENG1027	Lights Camera Media Lit		2		69		1,993		3.46%		35
ENG1029	MS Academic Literacy		21		838		19,244		4.35%		40
ENG1030	MS Digital Literacy 1		17		1,427		14,932		9.56%		84
ENG1031	MS Digital Literacy 2		3		226		2,886		7.83%		75
ENG1032	MS Digital Literacy 3		3		58		2,926		1.98%		19
ENG1041	Humanities English 6		2		224		1,804		12.42%		112
ENG1042	Humanities English 7		2		198		1,804		10.98%		99
ENG1043	Humanities English 8		2		137		1,804		7.59%		69
ENG1044	Humanities Media 6		2		224		1,804		12.42%		112
ENG1045	Humanities Media 7		2		198		1,804		10.98%		99
ENG1046	Humanities Media 8		2		137		1,804		7.59%		69
ENG1047	Humanities Literature 6		1		55		963		5.71%		55
ENG1048	MS Developmental Reading 1		25		737		23,061		3.20%		29
ENG1049	MS Developmental Reading 2		20		625		17,645		3.54%		31
ENG1050	Humanities Literature 7/8		1		53		963		5.50%		53

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
ENG2000A	English 9A	10		626		20,275		3.09%		63	
ENG2001A	Hon English 9A	25		11,221		51,997		21.58%		449	
ENG2002A	English 10A	12		680		24,234		2.81%		57	
ENG2003A	Hon English 10A	25		10,669		51,997		20.52%		427	
ENG2004A	English 11A	9		831		18,082		4.60%		92	
ENG2005A	Hon English 11A	25		7,301		51,997		14.04%		292	
ENG2006A	English 12A	7		365		14,757		2.47%		52	
ENG2007A	Hon English 12A	25		7,564		51,997		14.55%		303	
ENG2031A	AP Language and Comp A	23		5,012		48,011		10.44%		218	
ENG2032A	AP Literature and Comp A	22		3,305		46,131		7.16%		150	
ENG2033	Culture In Lit	3		138		5,507		2.51%		46	
ENG2034A	MCPS PIB English 9A	3		174		5,295		3.29%		58	
ENG2035A	MCPS PIB English 10A	2		125		3,415		3.66%		63	
ENG2039	African American Lit	1		7		2,300		0.30%		7	
ENG2042	Literacy in Digital Age 1	1		44		1,654		2.66%		44	
ENG2043	Literacy in Digital Age 2	1		35		1,654		2.12%		35	
ENG2044A	Myth and Modern Culture A	7		227		15,060		1.51%		32	
ENG2045A	IB English Lang Lit HL 1A	7		832		13,997		5.94%		119	
ENG2046A	IB English Lang Lit HL 2A	7		736		13,997		5.26%		105	
ENG2048A	Creative Writing A	18		588		39,487		1.49%		33	
ENG2050A	CAP Adv Comp A	1		2		3,266		0.06%		2	
ENG2051A	Academic Reading A	20		518		40,334		1.28%		26	
ENG2053A	Journalism A	19		441		39,788		1.11%		23	
ENG2054	Techniques of Adv Journalism	16		502		33,467		1.50%		31	
ENG2055	Pubs Edit/Biz	15		471		31,361		1.50%		31	
ENG2056A	CAP Journalism A	1		91		3,266		2.79%		91	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
ENG2057	CAP CRT Script Writing	1		81		3,266		2.48%		81	
ENG2059A	Criticism in Humanities A	1		56		1,351		4.15%		56	
ENG2060A	Yearbook 1A	24		903		50,326		1.79%		38	
ENG2061A	Yearbook 2A	16		112		35,401		0.32%		7	
ENG2062A	Literary Mag A	3		36		7,802		0.46%		12	
ENG2063	CAP Jr Seminar	1		113		3,266		3.46%		113	
ENG2064	CAP Sr Seminar	1		73		3,266		2.24%		73	
ENG2065	College Prep Lit 1	7		315		15,370		2.05%		45	
ENG2066	College Prep Lit 2	4		87		9,472		0.92%		22	
ENG2067	College Prep Lit 3	4		187		10,089		1.85%		47	
ENG2068	College Prep Lit 4	4		150		10,089		1.49%		38	
ENG2069	Inform Argument Speaking	2		17		5,316		0.32%		9	
ENG2071	CAP Oral Interpretation	1		81		3,266		2.48%		81	
ENG2072	Media In Society	6		333		12,372		2.69%		56	
ENG2073	Literature As Film	11		534		21,448		2.49%		49	
ENG2075	Intro Film Study	1		72		1,960		3.67%		72	
ENG2076A	RMS English 9A	1		123		2,366		5.20%		123	
ENG2077A	RMS English 10A	1		119		2,366		5.03%		119	
ENG2078A	IB English Acquisition 1A	2		30		3,871		0.77%		15	
ENG2079A	IB English Acquisition 2A	1		5		1,880		0.27%		5	
ENG2084A	Broadcast Journalism 1A	1		19		1,550		1.23%		19	
ENG2085A	Broadcast Journalism 2A	1		8		1,550		0.52%		8	
ENG2086	Shakespeare, Race, and Gender	1		13		1,654		0.79%		13	
ENG2087	HS Developmental Reading 1	11		186		24,601		0.76%		17	
ENG2088	HS Developmental Reading 2	11		323		24,051		1.34%		29	
ENG2089A	IB English Language and Literature SL 1A	4		310		7,857		3.95%		78	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
ENG2090A	IB English Language and Literature SL 2A	2		188		3,457		5.44%		94	
ENG2092A	English 10 AP Seminar A	11		1,059		21,393		4.95%		96	
ENG2093A	IB English Literature HL 1A	3		233		6,766		3.44%		78	
ENG2094A	IB English Literature HL 2A	4		203		8,646		2.35%		51	
ENG2095	TV Production 1	12		308		25,431		1.21%		26	
ENG2096	TV Production 2	11		248		23,440		1.06%		23	
ENG2100A	Spanish Language Journalism A	1		11		3,266		0.34%		11	
ENG2101A	Spanish Language Silver Chips Print A	1		12		3,266		0.37%		12	
ENG2102A	Silver Chips Online A	1		21		3,266		0.64%		21	
ENG2103A	Yearbook Executive Staff A	1		5		3,266		0.15%		5	
ENG5111	CE Adv English	20		738		42,794		1.72%		37	
ENG5125	CE Adv Speech	16		391		33,712		1.16%		24	

Engineering (ENR)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
ENR1000	Aerospace Design Tech		1		67		1,185		5.65%		67
ENR1002	Applied Robot Engineer		1		196		1,185		16.54%		196
ENR1004	Applied Robot Programming		1		127		1,185		10.72%		127
ENR1006	CADD Architecture Apps		5		252		3,887		6.48%		50
ENR1010A	Gateway Technology A		1		101		1,259		8.02%		101
ENR1012	Imagineering Technology		6		815		5,853		13.92%		136
ENR1013	Innovative Minds 1		1		92		868		10.60%		92
ENR1014	Innovative Minds 2		1		135		868		15.55%		135
ENR1015	Innovative Tech Solutions		3		216		2,533		8.53%		72
ENR1016	Intro Robotic Systems		1		125		1,185		10.55%		125
ENR1021	Technology Systems Gr 8		11		1,198		11,242		10.66%		109
ENR1022	MS Introduction to Tech and Engineering		16		2,760		15,429		17.89%		173
ENR1023	MS Engineering Design and Modeling		7		1,206		7,211		16.72%		172
ENR1024	MS Applied Engineering Design		11		883		9,814		9.00%		80
ENR1025	MS Innovation and Engr Design		21		2,686		18,716		14.35%		128
ENR1027	3d Printing and Design		1		156		1,185		13.16%		156
ENR2002A	Guided Research A	1		2		1,351		0.15%		2	
ENR2004A	Research Project A	3		225		6,717		3.35%		75	
ENR2008A	Environmental Sustain A	1		25		2,100		1.19%		25	
ENR2009A	Civil Engineering A	9		302		18,074		1.67%		34	
ENR2012	Robotics	2		42		4,617		0.91%		21	
ENR2014A	Digital Electronics A	12		315		24,007		1.31%		26	
ENR2015A	Engineering Design Dev A	13		387		25,678		1.51%		30	
ENR2016A	Prin of Engineering A	12		854		24,101		3.54%		71	
ENR2025	Intern Engineer	2		13		3,876		0.34%		7	
ENR2026A	Aerospace Engineering A	6		250		12,548		1.99%		42	
ENR5110	CE Adv Engineering	4		20		8,505		0.24%		5	

Health and Physical Education (HPE)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
HPE1000	Health Education Gr 6		40		11,994		35,544		33.74%		300
HPE1001	Health Education Gr 7		40		12,000		35,544		33.76%		300
HPE1002	Health Education Gr 8		40		12,098		35,544		34.04%		302
HPE1003	Physical Education Gr 6		40		35,819		35,544		100.77%		895
HPE1004	Physical Education Gr 7		40		35,851		35,544		100.86%		896
HPE1005	Physical Education Gr 8		40		35,733		35,544		100.53%		893
HPE2002	NC Physical Education	7		422		13,463		3.13%		60	
HPE2003	Leadership Opportunity PE	10		273		20,413		1.34%		27	
HPE2004A	Found Fitness Sport PE A	16		1,912		35,219		5.43%		120	
HPE2005	Concentrated Physical Ed	1		16		1,671		0.96%		16	
HPE2006	Specialty Physical Ed	2		39		4,896		0.80%		20	
HPE2009	CPE Individual Dual Sport	2		152		3,065		4.96%		76	
HPE2010	CPE Lifetime Sports	4		350		9,231		3.79%		88	
HPE2011	CPE Net Sports	16		3,221		34,256		9.40%		201	
HPE2012	CPE Team Sports	9		1,361		17,700		7.69%		151	
HPE2013	CPE Team Individual Sport	2		344		4,122		8.35%		172	
HPE2014	Specialty PE Athletic Guide Train	1		26		2,100		1.24%		26	
HPE2016	Specialty PE Basketball	24		5,623		50,646		11.10%		234	
HPE2017	Specialty PE Dance	9		860		19,420		4.43%		96	
HPE2019	Specialty PE Fitness	10		1,088		22,055		4.93%		109	
HPE2020	Specialty PE Flag Football	12		874		25,342		3.45%		73	
HPE2021	Specialty PE Lacrosse	2		46		4,260		1.08%		23	
HPE2022	Specialty PE Soccer	24		7,737		50,646		15.28%		322	
HPE2025	Specialty PE Volleyball	13		3,632		27,568		13.17%		279	
HPE2026	Specialty PE Weight Strength Train	24		9,584		50,646		18.92%		399	
HPE2028	Specialty PE Yoga Stretching	22		6,489		46,552		13.94%		295	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
HPE2030	Human Behavior	15		1,125		31,174		3.61%		75	
HPE2032	NC Health Education	1		31		2,409		1.29%		31	
HPE2034	First Aid	3		98		7,666		1.28%		33	
HPE2042A	Hon Health Education A	25		12,273		51,997		23.60%		491	
HPE2046	Specialty PE Latin Dance	1		17		3,266		0.52%		17	
HPE5114	CE Adv Health	12		153		26,688		0.57%		13	
HPE5122	CE Adv Physical Education	5		5		10,016		0.05%		1	

Information Technology (ITC)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
ITC1000	Comp Sci Discoveries 1		7		820		7,003		11.71%		117
ITC1001	Comp Sci Discoveries 2		3		365		3,199		11.41%		122
ITC1002	Computer Apps with Analysis		4		295		3,549		8.31%		74
ITC1002T	Computer Apps with Analysis TR		1		96		467		20.56%		96
ITC1004	Info Comm Tech 6		2		225		1,669		13.48%		113
ITC1004T	Info Comm Technology 6 TR		2		251		1,330		18.87%		126
ITC1007	Intro Web Tools		2		118		1,731		6.82%		59
ITC1010	Mag Computer Sci 6		2		245		2,065		11.86%		123
ITC1011	Mag Computer Sci 7		2		226		2,065		10.94%		113
ITC1012	Mag Computer Sci 8		2		206		2,065		9.98%		103
ITC1015	Programming Fundamentals		1		150		868		17.28%		150
ITC1016	Website Dev Fundamentals		1		33		888		3.72%		33
ITC1017	Advanced Programming and Game Design		1		52		868		5.99%		52
ITC2004A	IB Computer Science 1A	2		32		4,246		0.75%		16	
ITC2005A	IB Computer Science 2A	1		1		1,838		0.05%		1	
ITC2007A	AP Computer Sci JAVA A	17		677		36,026		1.88%		40	
ITC2008	Intern Info Tech	8		212		16,264		1.30%		27	
ITC2012A	Adv WebTools Digital Media A	2		15		4,664		0.32%		8	
ITC2013A	Foundations Computer Science A	2		192		4,617		4.16%		96	
ITC2014A	Algorithm Data A	2		192		4,617		4.16%		96	
ITC2015	Intro Networking	2		77		4,617		1.67%		39	
ITC2016	Analysis Algorithms	2		137		4,617		2.97%		69	
ITC2017	Computer Graphics	1		23		3,266		0.70%		23	
ITC2018	Software Design	1		24		3,266		0.73%		24	
ITC2019	Modeling Simulation	1		36		3,266		1.10%		36	
ITC2021A	Comp Prog 3 Adv Topics A	17		346		37,835		0.91%		20	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
ITC2021B	Comp Prog 3 Adv Topics B	17		311		37,835		0.82%		18	
ITC2022	Intro AI/LISP	1		67		3,266		2.05%		67	
ITC2023	Computational Methods	1		18		3,266		0.55%		18	
ITC2024A	Computer Programming 1A	18		976		39,602		2.46%		54	
ITC2024B	Computer Programming 1B	18		748		39,602		1.89%		42	
ITC2025A	Website Development A	6		178		13,545		1.31%		30	
ITC2028	Network Ops Intern	1		2		2,409		0.08%		2	
ITC2034A	Database Admin Program A	1		8		2,794		0.29%		8	
ITC2039A	Network Ops 1A DP	1		10		2,242		0.45%		10	
ITC2041A	Linux Essentials A	1		19		2,409		0.79%		19	
ITC2043A	Intro Internet of Things A	1		18		2,794		0.64%		18	
ITC2047A	AP Comp Sci Prin PLTW A	4		51		6,720		0.76%		13	
ITC2060A	Cybersecurity Capstone A DP	1		18		2,409		0.75%		18	
ITC2061A	PTech Network Ops 2A	1		34		2,242		1.52%		34	
ITC2062A	SV Network Operations 1A	1		31		2,409		1.29%		31	
ITC2063A	SV Network Operations 2A DP	1		17		2,409		0.71%		17	
ITC2064A	IB Computer Science 1A TE	2		26		3,388		0.77%		13	
ITC2066A	Fundamentals of App Dev 1A	2		28		4,593		0.61%		14	
ITC2067A	Adv App Development 2A	1		7		3,016		0.23%		7	
ITC2068	Robotic Design 6		12		1,750		11,270		15.53%		146
ITC2069	Coding Game Development 6		21		2,930		19,674		14.89%		140
ITC2070	Principles IT Digital Systems 7		14		901		12,445		7.24%		64
ITC2071	Principles IT Cybersecurity 7		12		859		10,254		8.38%		72
ITC2072A	PTECH Network Operations 1A DP	1		52		2,242		2.32%		52	
ITC2073A	AP CS Principles in Swift A	2		34		4,593		0.74%		17	
ITC2074A	Cybersecurity Fundamentals A	1		32		2,409		1.33%		32	
ITC2076A	CyberOps Associate A	1		13		1,390		0.94%		13	
ITC2077A	IT Essentials CISCO A	3		91		5,098		1.79%		30	
ITC2078A	Introduction to Networks CISCO A	3		41		5,098		0.80%		14	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
ITC2079A	Linux Essentials CISCO A	1		6		1,390		0.43%		6	
ITC2080A	Routing Switching Essentials CISCO A	2		16		3,708		0.43%		8	
ITC2081A	AP Computer Science JAVA A TE	7		328		15,076		2.18%		47	
ITC2082A	Cloud Computing Essentials A	1		8		1,838		0.44%		8	
ITC2083A	Found Computer Sci TE A	22	27	3,400	1,612	44,971	24,556	7.56%	6.56%	155	60
ITC2084A	AP Computer Sci Prin TE A	25		3,266		51,997		6.28%		131	
ITC5104	CE Adv Computer Science	16		289		34,853		0.83%		18	

Junior ROTC (JRO)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
JRO2000A	Naval Science 1A	4		278		8,768		3.17%		70	
JRO2001A	Naval Science 2A	4		133		8,768		1.52%		33	
JRO2002A	Naval Science 3A	4		72		8,768		0.82%		18	
JRO2003A	Naval Science 4A	4		32		8,768		0.36%		8	
JRO2004A	Army Jr ROTC 1A	1		32		1,671		1.92%		32	
JRO2005A	Army Jr ROTC 2A	1		27		1,671		1.62%		27	
JRO2006A	Army Jr ROTC 3A	1		13		1,671		0.78%		13	
JRO2007A	Army Jr ROTC 4A	1		13		1,671		0.78%		13	

Math (MAT)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
MAT1003	Applied Investigations Math 6		15		1,060		13,041		8.13%		71
MAT1005	Grade 6 Math		34		5,427		30,280		17.92%		160
MAT1006	Grade 7 Math		34		5,068		30,280		16.74%		149
MAT1007	Grade 8 Math		39		5,312		34,676		15.32%		136
MAT1008	Mag Investigations in Math		2		97		2,065		4.70%		49
MAT1010	Math 180		19		509		17,172		2.96%		27
MAT1014	Math Appl Concepts (MAC) Tier 2		9		68		8,248		0.82%		8
MAT1015	Accelerated Math 6 Plus		38		3,585		33,872		10.58%		94
MAT1016	Accelerated Math 7 Plus		40		6,628		35,544		18.65%		166
MAT1018	Math Appl Concepts (MAC) Tier 1		4		36		3,490		1.03%		9
MAT2000A	Algebra 1A	25	40	5,022	7,330	51,997	35,544	9.66%	20.62%	201	183
MAT2001A	Related Math A	8		313		19,760		1.58%		39	
MAT2003A	Geometry A	21		5,946		43,022		13.82%		283	
MAT2004A	Hon Geometry A	25	38	5,714	2,875	51,997	33,876	10.99%	8.49%	229	76
MAT2008A	Mag Geometry A	0	2		218		2,065		10.56%		109
MAT2011A	Algebra 2A	24		5,742		48,731		11.78%		239	
MAT2012A	Hon Algebra 2A	25	3	6,043	60	51,997	2,900	11.62%	2.07%	242	20
MAT2015A	2YR Algebra 2A	15		1,269		33,833		3.75%		85	
MAT2016C	2YR Algebra 2C	15		887		33,815		2.62%		59	
MAT2018A	RMS Geometry A	1		5		2,366		0.21%		5	
MAT2024A	MCPS PIB Geometry A	3		76		5,295		1.44%		25	
MAT2026A	Math Appr to Prob Solving MAPS A Tier 2	12		162		26,363		0.61%		14	
MAT2029A	Mag Precalculus A	3		227		7,411		3.06%		76	
MAT2030C	Mag Precalculus C	3		185		7,411		2.50%		62	
MAT2031A	Precalculus A	22		3,106		46,778		6.64%		141	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
MAT2033A	AP Precalculus A	11		886		20,810		4.26%		81	
MAT2034A	Financial Mathematics A	25		4,217		51,997		8.11%		169	
MAT2036A	Mag Functions A	2		75		4,617		1.62%		38	
MAT2037A	Mag Analysis 1A	2		132		4,617		2.86%		66	
MAT2038A	MV Calc/Dif Eq A	12		587		26,259		2.24%		49	
MAT2039	Applied Stat	2		135		4,617		2.92%		68	
MAT2040A	AP AB Calculus A	25		2,177		51,997		4.19%		87	
MAT2041A	AP BC Calculus A	23		1,672		47,147		3.55%		73	
MAT2042A	IB An/App Functions A	1		130		2,366		5.49%		130	
MAT2044A	Statistics Math Modl A	19		1,331		40,643		3.27%		70	
MAT2045A	SR Sem Stats Research A	1		39		3,266		1.19%		39	
MAT2046A	Honors Statistics A	25		2,310		51,997		4.44%		92	
MAT2048A	Hon Precalculus A	19		3,344		39,658		8.43%		176	
MAT2049A	Calculus w Applications A	21		1,312		44,780		2.93%		62	
MAT2050A	Vector Calculus A	1		27		1,351		2.00%		27	
MAT2052A	IB Precalculus A	1		144		2,366		6.09%		144	
MAT2053	Discrete Math	3		108		6,802		1.59%		36	
MAT2054A	Linear Algebra	3		126		6,802		1.85%		42	
MAT2055	Complex Analysis	2		35		4,617		0.76%		18	
MAT2056	Logic Math	2		41		4,617		0.89%		21	
MAT2057A	1YR Linear Algebra A	1		39		2,056		1.90%		39	
MAT2060A	IB Analysis Statistics Calculus 1A	2		173		4,204		4.12%		87	
MAT2061A	IB Analysis Stats Calculus SL 1A	3		92		5,866		1.57%		31	
MAT2062A	IB Analysis Statistics Calculus SL 2A	5		147		10,081		1.46%		29	
MAT2063A	IB Analysis Stats Calculus HL 1A	3		107		5,950		1.80%		36	
MAT2064A	IB Analysis Statistics Calculus HL 2A	5		184		10,540		1.75%		37	
MAT2066A	IB MultiVarCalc DiffEq A	1		36		2,366		1.52%		36	
MAT2068A	AP Statistics A	25		3,016		51,997		5.80%		121	
MAT2077	Math 180 HS	1		2		2,366		0.08%		2	
MAT2080A	IB Applications Statistics Calculus 1A	2		57		4,204		1.36%		29	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
MAT2081A	IB Applications Stats Calculus SL 1A	5		231		9,407		2.46%		46	
MAT2082A	IB Applications Statistics Calculus SL 2A	5		228		9,793		2.33%		46	
MAT2083A	IB Applications Stats Calculus HL 1A	1		5		1,880		0.27%		5	
MAT2084A	IB Applications Statistics Calculus HL 2A	1		22		1,880		1.17%		22	
MAT2085A	MCPS IB Algebra 2A	3		127		5,295		2.40%		42	
MAT2086A	Math Appr to Prob Solving MAPS A Tier 1	9		60		20,984		0.29%		7	
MAT5119	CE Adv Mathematics	19		460		40,834		1.13%		24	

Law, Government, Public Safety and Administration (PGS)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
PGS2000A	Intro to Justice Law Society A	4		286		8,858		3.23%		72	
PGS2001A	Law and Admin Justice A	4		73		8,858		0.82%		18	
PGS2002A	Contemporary Issues Justice Law Society A	3		40		5,592		0.72%		13	
PGS2004A	Found Law Enforcement A	1		60		2,409		2.49%		60	
PGS2005A	Law Enforce Emerg Prep A	1		40		2,409		1.66%		40	
PGS2006A	Admin Law and Justice A	1		22		2,409		0.91%		22	
PGS2009A	Research Law Enforcement Leadership A	1		9		2,409		0.37%		9	
PGS2010A	Law Enforcement Intern A	1		3		2,409		0.12%		3	
PGS2013A	Fire and Rescue 1A TP	1		2		1,654		0.12%		2	
PGS2017A	Fire Rescue 2A TP	3		3		6,237		0.05%		1	
PGS2025A	OC Fire and Rescue 1A TP	8		10		17,142		0.06%		1	
PGS2026A	OC Fire Rescue 2A TP	10		15		22,100		0.07%		2	
PGS2027	Intern Law Gov Safety Admin	2		12		3,938		0.30%		6	
PGS2028A	Research Law Government A	1		4		1,654		0.24%		4	
PGS5106	CE Adv Criminal Justice	9		79		19,592		0.40%		9	

Science (SCI)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
SCI1008	Mag Investigations Science 6		2		245		2,065		11.86%		123
SCI1009	Mag Investigations Science 7		2		226		2,065		10.94%		113
SCI1010	Mag Investigations Science 8		2		205		2,065		9.93%		103
SCI1012	Mission Earth		1		417		1,185		35.19%		417
SCI1013	Principles Of Flight		1		123		1,185		10.38%		123
SCI1015	Unmanned Space Exploration		1		447		1,185		37.72%		447
SCI1020	Comp Planet Orb		1		414		1,185		34.94%		414
SCI1021	Human Space Exploration		1		449		1,185		37.89%		449
SCI1022	Investigations in Earth Science		39		11,536		34,359		33.57%		296
SCI1023	Investigations in Life Science		39		11,430		34,359		33.27%		293
SCI1024	Science of Sports and Rec Activities		1		118		908		13.00%		118
SCI1025	Investigation in Physical Science		40		11,976		35,544		33.69%		299
SCI2000A	Biology A	13		2,459		25,584		9.61%		189	
SCI2000BX	Biology BX	13		2,119		25,584		8.28%		163	
SCI2001A	Hon Biology A	25		10,397		51,997		20.00%		416	
SCI2001BX	Hon Biology BX	25		9,372		51,997		18.02%		375	
SCI2003A	Chemistry A	20		4,142		40,722		10.17%		207	
SCI2004A	Hon Chemistry A	25		8,790		51,997		16.90%		352	
SCI2005A	Physics A	10		1,449		22,265		6.51%		145	
SCI2006A	Hon Physics A	24	1	5,325	67	50,420	1,185	10.56%	5.65%	222	67
SCI2008A	Intern-Science A	1		26		2,056		1.26%		26	
SCI2009A	Intern Science A DP	1		8		2,056		0.39%		8	
SCI2010	Adv Sci1 Physics DP	2		190		4,617		4.12%		95	
SCI2011	Adv Sci2 Chemistry DP	2		190		4,617		4.12%		95	
SCI2012A	Adv Sci3 Earth Space Science Systems A	1		59		1,351		4.37%		59	
SCI2013A	Adv Sci4 Biology A	2		161		4,617		3.49%		81	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
SCI2013BX	Adv Sci4 Biology BX	2		162		4,617		3.51%		81	
SCI2014	Adv Sci3 Earth Space Science Systems DP	1		104		3,266		3.18%		104	
SCI2016	Optics	1		34		3,266		1.04%		34	
SCI2017	Thermodynamics	2		47		4,617		1.02%		24	
SCI2018	Analytical Chemistry	1		32		3,266		0.98%		32	
SCI2019	Materials Science	1		18		3,266		0.55%		18	
SCI2020A	Adv Topics Earth Sci A	1		37		3,266		1.13%		37	
SCI2021	Cellular Physiology	1		67		3,266		2.05%		67	
SCI2022	Marine Biology	4		200		7,942		2.52%		50	
SCI2024	Quantum Physics	2		128		4,617		2.77%		64	
SCI2026A	Nutrition Sci A	1		31		2,300		1.35%		31	
SCI2027A	Hon Nutrition Sci A	2		219		4,055		5.40%		110	
SCI2029	Entomology	1		25		3,266		0.77%		25	
SCI2033A	Intro Genetic Analysis A	2		73		4,617		1.58%		37	
SCI2034	Neuroscience	1		54		3,266		1.65%		54	
SCI2036	Intro Physical Chemistry	1		52		3,266		1.59%		52	
SCI2037	Organic Chemistry	4		153		9,653		1.58%		38	
SCI2040A	AP Biology A	2		150		5,707		2.63%		75	
SCI2041A	AP Biology A DP	20		1,252		42,590		2.94%		63	
SCI2043	Wildlife Biology	2		89		3,022		2.95%		45	
SCI2045A	Molecular Biology A	5		196		10,455		1.87%		39	
SCI2046A	AP Environmental Sci A	18		1,886		38,792		4.86%		105	
SCI2047A	Environmental Science A	1		27		1,675		1.61%		27	
SCI2049A	Environ Sci Biology A	1		88		1,351		6.51%		88	
SCI2049BX	Environ Sci Biology BX	1		85		1,351		6.29%		85	
SCI2050A	Environ Sci3 Physics A	1		69		1,351		5.11%		69	
SCI2054	Found of Immunology	1		24		3,266		0.73%		24	
SCI2056	Chemistry of Art	1		17		3,266		0.52%		17	
SCI2057A	AP Chemistry A	3		154		8,426		1.83%		51	
SCI2059A	AP Chemistry A DP	19		952		40,120		2.37%		50	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
SCI2060A	Anatomy and Physiology A	21		1,216		43,755		2.78%		58	
SCI2063A	AP Physics C Electricity Magnetism A	4		181		9,818		1.84%		45	
SCI2064A	AP Physics C Mechanics A	8		344		17,873		1.92%		43	
SCI2065A	AP Physics C Mechanical Electricity Magnetism A	1		47		3,266		1.44%		47	
SCI2066A	AP Physics C A	8		298		16,714		1.78%		37	
SCI2067A	AP Physics A DP	3		114		5,964		1.91%		38	
SCI2068A	Astronomy A	5	1	195	69	13,033	1,185	1.50%	5.82%	39	69
SCI2069A	Forensic Sci A	20		1,524		42,435		3.59%		76	
SCI2070	Intro Biochemistry	1		28		3,266		0.86%		28	
SCI2071	Research Design Science	1		60		1,351		4.44%		60	
SCI2072A	AP Physics 1A	17		1,484		36,332		4.08%		87	
SCI2073A	AP Physics 2A	1		20		1,351		1.48%		20	
SCI2076A	Molecular Genetics A DP	1		38		2,185		1.74%		38	
SCI2077A	Intro Forensic Sci A	1		66		2,056		3.21%		66	
SCI2081A	IB Biology SL 1A	1		15		1,880		0.80%		15	
SCI2082A	IB Biology HL 1A	8		365		15,988		2.28%		46	
SCI2083A	IB Biology HL 2A	8		254		15,988		1.59%		32	
SCI2084A	MCPS PIB Biology A	2		77		3,415		2.25%		39	
SCI2084BX	MCPS PIB Biology BX	2		70		3,415		2.05%		35	
SCI2085A	IB Sport Exercise Health Science A	7		315		14,438		2.18%		45	
SCI2086A	MCPS PIB Chemistry A/B	3		298		5,295		2.89%		51	
SCI2087A	IB Chemistry SL 1A/B	4		218		8,243		1.46%		30	
SCI2089A	IB Chemistry SL 2A/B	1		7		1,880		0.27%		5	
SCI2090A	IB Environmental System A/B	8		650		15,988		2.16%		43	
SCI2096A	IB Physics SL 1A	2		60		4,289		1.40%		30	
SCI2103A	RMS Biology 1A	1		123		2,366		5.20%		123	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
SCI2103BX	RMS Biology 1BX	1		121		2,366		5.11%		121	
SCI2104A	RMS Chemistry A	1		164		2,366		6.93%		164	
SCI2107	Hon Chemistry DP	2		105		5,304		1.98%		53	
SCI2108	Hon Biology DP	1		28		2,038		1.37%		28	
SCI2108X	Hon Biology DP X	2		73		5,304		1.38%		37	
SCI2109A	MCPS IB Physics A	2		125		3,718		3.36%		63	
SCI2110A	Earth Systems and Sustainability A	19	1	1,191	293	40,483	1,185	2.94%	24.73%	63	293
SCI2112A	Horticultural Sci A	7		248		15,222		1.63%		35	
SCI2113	Global Climate Change	1		17		1,654		1.03%		17	
SCI2114A	IB Biology SL 2A	1		1		1,880		0.05%		1	
SCI2115A	IB Chemistry HL 1A	5		150		9,625		1.56%		30	
SCI2116A	IB Chemistry HL 2A	3		77		6,237		1.23%		26	
SCI2117A	IB Physics HL 1A	5		264		9,861		2.68%		53	
SCI2118A	IB Physics HL 2A	5		134		9,861		1.36%		27	
SCI2119	Introduction to Genetic Analysis	1		44		2,242		1.96%		44	
SCI5085A	Astronomy with Physics A	19		3,606		38,085		9.47%		190	

Social Studies (SOC)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
SOC1001	Historical Inquiry in World Studies 6		32		7,215		28,285		25.51%		225
SOC1002	World Studies Gr 7		1		1		562		0.18%		1
SOC1003	US History 8		1		323		868		37.21%		323
SOC1004	Historical Inquiry in World Studies 7		32		7,011		28,285		24.79%		219
SOC1005	Adv US History 8		5		779		3,977		19.59%		156
SOC1009	Historical Inquiry Global Hum 6		39		4,887		34,703		14.08%		125
SOC1010	Historical Inquiry Global Hum 7		38		5,031		33,835		14.87%		132
SOC1011	Humanities US History 8		2		139		1,804		7.71%		70
SOC1012	Humanities World Studies 6		2		224		1,804		12.42%		112
SOC1013	Humanities World Studies 7		2		198		1,804		10.98%		99
SOC1016	MS Model UN		3		200		2,792		7.16%		67
SOC1018	Student Court 7		1		64		1,019		6.28%		64
SOC1019	Student Court 8		1		82		1,019		8.05%		82
SOC1020	Historical Inquiry American Studies		37		4,992		32,872		15.19%		135
SOC1021	Historical Inquiry US History 8		29		6,189		25,980		23.82%		213
SOC1022	MS African American Studies		1		18		705		2.55%		18
SOC2000A	US History A	15		3,178		30,517		10.41%		212	
SOC2001A	Hon US History A	25		8,097		51,997		15.57%		324	
SOC2003A	NSL Government A	15		2,759		31,473		8.77%		184	
SOC2003BX	NSL Government BX	15		2,017		31,473		6.41%		134	
SOC2004A	Hon NSL Government A	25		5,243		51,997		10.08%		210	
SOC2004BX	Hon NSL Government BX	25		4,414		51,997		8.49%		177	
SOC2006A	Mod World History A/B	36		1,997		33,263		6.00%		125	
SOC2007A	Hon Modern World A	25		6,246		51,997		12.01%		250	
SOC2015	IB Theory Knowledge 1	5		245		10,054		2.44%		49	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
SOC2016	IB Theory Knowledge 2	7		353		14,108		2.50%		50	
SOC2017A	IB TOK1 Essay A	7		390		13,611		2.87%		56	
SOC2018A	IB Global Politics SL A	4		82		8,604		0.95%		21	
SOC2019	African American History 1	6		131		13,937		0.94%		22	
SOC2020	African American History 2	1		31		1,960		1.58%		31	
SOC2021A	AP GovPolitics US NSL A	25		7,063		51,997		13.58%		283	
SOC2021BX	AP GovPolitics US NSL BX	4		1,118		8,938		12.51%		280	
SOC2022A	AP US History A	24		3,040		49,897		6.09%		127	
SOC2024A	AP GovPolitics Comp A	10		509		22,458		2.27%		51	
SOC2026	Intl Human Rights 1	1		39		1,880		2.07%		39	
SOC2028	Latin American History	6		245		14,455		1.69%		41	
SOC2031	Ancient Mediterranean Civ	2		149		5,116		2.91%		75	
SOC2032	Medieval History	3		204		6,467		3.15%		68	
SOC2035	Hip Hop History Culture	5		192		11,179		1.72%		38	
SOC2037A	AP European History A	8		303		17,051		1.78%		38	
SOC2038	Eastern Asia	2		56		4,818		1.16%		28	
SOC2039	History Eastern Asia 2	1		35		2,377		1.47%		35	
SOC2040	World Military History	3		91		4,798		1.90%		30	
SOC2043A	IB History 1A	8		719		15,988		4.50%		90	
SOC2044A	IB Psychology 1A	6		269		11,742		2.29%		45	
SOC2045A	IB Economics SL A	6		216		12,861		1.68%		36	
SOC2046A	IB Philosophy SL A	1		102		2,366		4.31%		102	
SOC2047A	AP World History A	23		4,601		48,011		9.58%		200	
SOC2048A	IB Social Anthropology SL A	5		204		10,582		1.93%		41	
SOC2050A	IB World Religion SL A	1		15		1,577		0.95%		15	
SOC2051A	Women's Studies A	8		223		18,493		1.21%		28	
SOC2052	Economics	6		420		13,666		3.07%		70	
SOC2053	Psychology 1	12		1,082		26,170		4.13%		90	
SOC2054	Psychology 2	9		450		18,975		2.37%		50	
SOC2055	Sociology 1	18		1,470		37,807		3.89%		82	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
SOC2056	Sociology 2	16		949		32,790		2.89%		59	
SOC2057	Hon Sociology 1	2		121		4,566		2.65%		61	
SOC2058	Hon Sociology 2	2		112		4,566		2.45%		56	
SOC2059	Law 1	18		1,419		37,179		3.82%		79	
SOC2060	Law 2	9		521		17,541		2.97%		58	
SOC2061A	Mod Urban World A	1		32		1,577		2.03%		32	
SOC2063	Philosophy	8		431		19,049		2.26%		54	
SOC2064	AP Macroeconomics	13		1,350		29,080		4.64%		104	
SOC2065	AP Microeconomics	14		1,445		30,470		4.74%		103	
SOC2066A	Humanities SS A	1		33		2,242		1.47%		33	
SOC2067	Comp Religion	4		193		10,334		1.87%		48	
SOC2068A	AP Human Geography A	16		1,241		34,294		3.62%		78	
SOC2069A	AP Psychology A	23		3,905		48,429		8.06%		170	
SOC2070	Psychology Journal	1		57		2,056		2.77%		57	
SOC2071A	Global Issues A	3		200		6,119		3.27%		67	
SOC2072A	Hon Global Issues A	2		67		5,451		1.23%		34	
SOC2073A	IB Geography SL A	2		51		4,400		1.16%		26	
SOC2074A	IB History 2A	8		447		15,988		2.80%		56	
SOC2076	Hon Ancient History	1		40		2,185		1.83%		40	
SOC2077	Hon Medieval History	1		37		2,185		1.69%		37	
SOC2078A	Hon Cultural Anthropology A	1		32		2,185		1.46%		32	
SOC2086	Hon Seminar Peace Studies	1		40		2,377		1.68%		40	
SOC2087	LGBTQ Studies	1		15		2,056		0.73%		15	
SOC2088	Political Behavior and Psychology	3		145		8,338		1.74%		48	
SOC2089	American History Through Film	10		379		21,823		1.74%		38	
SOC2091	Leadership Equity Incl Social Justice Seminar	1		92		2,056		4.47%		92	
SOC2092A	IB Social and Cultural Anthropology 2A	1		14		1,880		0.74%		14	
SOC2093	Environmental Justice	1		30		2,056		1.46%		30	
SOC2094	Asian/Pac Island/Desi/Amer Studies (APIDA)	1		3		2,300		0.13%		3	
SOC2097	Positive Psychology	4		251		9,858		2.55%		63	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
SOC2099	Hispanic/Latinx American Studies	3		138		5,331		2.59%		46	
SOC2100	Muslim Global Experiences	1		21		1,960		1.07%		21	
SOC2101A	AP African American Studies A	12		370		27,404		1.35%		31	
SOC2102	Personal Finance	23		2,962		48,382		6.12%		129	
SOC2103	Social Justice through Public Policy	1		37		2,056		1.80%		37	
SOC2104	Jewish Peoplehood Throughout History	1		12		3,266		0.37%		12	
SOC2105A	IB Psychology 2A	1		29		1,577		1.84%		29	
SOC2106	Women's History	1		23		1,577		1.46%		23	
SOC5121	CE Adv Music	12		130		26,083		0.50%		11	
SOC5124	CE Adv Social Studies	19		726		40,834		1.78%		38	

Technology Education (TEC)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
TEC2000A	Found Of Tech A	17		3,769		34,760		10.84%		222	
TEC2006A	Making for Engineers A	8		1,001		16,777		5.97%		125	
TEC2007A	Adv Design Applications A	3		83		6,733		1.23%		28	
TEC2008A	Adv Tech Applications A	1		34		3,016		1.13%		34	
TEC2009A	Research Exp ProbSolv 1A	2		190		4,617		4.12%		95	
TEC2013	Gateway Medical Detectives		1		61		869		7.02%		61
TEC2016A	Foundations of Engineering and Technology A	6	5	1,230	476	14,381	5,452	8.55%	8.73%	205	95
TEC2017A	Introduction to Engineering Design A	13	21	1,974	1,306	25,678	17,468	7.69%	7.48%	152	62
TEC2018A	Programming for Engineers e4usa A	2		37		4,551		0.81%		19	
TEC5126	CE Adv Technology Credit	14		87		28,639		0.30%		6	

Transportation (TRN)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
TRN2004A	Auto Tech 2A DP	3		69		6,240		1.11%		23	
TRN2005A	Auto Tech 3A DP	2		8		3,799		0.21%		4	
TRN2006A	Auto Tech 1A DP	3		122		6,240		1.96%		41	
TRN2008A	Auto Collision Repair 1A DP	1		44		2,441		1.80%		44	
TRN2009A	Auto Collision Repair 2A DP	1		15		2,441		0.61%		15	
TRN2018	Intro To Flight	1		41		1,671		2.45%		41	
TRN2019	Aircraft Systems	1		39		1,671		2.33%		39	
TRN2020	Pvt Pilot Fundamentals 1	1		25		1,671		1.50%		25	
TRN2021	Pvt Pilot Fundamentals 2	1		26		1,671		1.56%		26	
TRN2022	Unmanned Aircraft Systems 1	1		10		1,671		0.60%		10	
TRN2023	Unmanned Aircraft Systems 2	1		10		1,671		0.60%		10	
TRN2024A	Unmanned Aircraft Sys Flight 1	1		11		1,671		0.66%		11	
TRN2024B	Unmanned Aircraft Sys Flight 2	1		10		1,671		0.60%		10	
TRN2025A	Private Pilot Flight 1	1		22		1,671		1.32%		22	
TRN2025B	Private Pilot Flight 2	1		21		1,671		1.26%		21	
TRN2026	Exploration Aviation Aerospace	1		46		1,671		2.75%		46	
TRN2027	Prin Aviation Aerospace	1		50		1,671		2.99%		50	

World Languages (WLG)

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
WLG1000	Aware Lang Culture		2		251		2,087		12.03%		126
WLG1002A	MS FY Chinese 1A		3		72		3,279		2.20%		24
WLG1003A	MS FY French 1A		16		815		15,105		5.40%		51
WLG1005A	MS FY Spanish 1A		19		2,443		17,679		13.82%		129
WLG2001A	American Sign Lang 1A	15		1,217		32,261		3.77%		81	
WLG2002A	American Sign Lang 2A	16		813		34,702		2.34%		51	
WLG2003A	American Sign Lang 3A	12		220		24,536		0.90%		18	
WLG2004A	American Sign Lang 4A	4		33		8,543		0.39%		8	
WLG2011A	Arabic 1A	3		56		6,087		0.92%		19	
WLG2012A	Arabic 2A	3		18		6,087		0.30%		6	
WLG2013A	Arabic 3A	2		12		4,433		0.27%		6	
WLG2014A	Arabic 4A	1		2		2,377		0.08%		2	
WLG2021A	Chinese 1A	5	4	87	111	12,299	4,216	0.71%	2.63%	17	28
WLG2022A	Chinese 2A	7	6	107	220	16,765	6,383	0.64%	3.45%	15	37
WLG2025A	Chinese 5A	6		120		14,298		0.84%		20	
WLG2027A	Chinese 7A	2		29		4,055		0.72%		15	
WLG2028A	Hon Chinese 3A	9	2	184	84	21,006	1,845	0.88%	4.55%	20	42
WLG2029A	Hon Chinese 4A	7		179		16,112		1.11%		26	
WLG2034A	Chinese Lang Immersion 1A		1		54		930		5.81%		54
WLG2037A	RMS Chinese 3A	1		11		2,366		0.46%		11	
WLG2038A	AP Chinese LC A	5		68		11,493		0.59%		14	
WLG2041A	French 1A	21	30	744	1,825	45,349	27,469	1.64%	6.64%	35	61
WLG2042A	French 2A	24	34	975	1,370	50,607	30,774	1.93%	4.45%	41	40
WLG2043A	French 3A	2	2	62	57	5,072	1,699	1.22%	3.35%	31	29
WLG2045A	French 5A	17		335		35,773		0.94%		20	
WLG2046A	French 6A	6		51		14,488		0.35%		9	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
WLG2047A	French 7A	3		6		5,605		0.11%		2	
WLG2048A	Hon French 3A	24	18	1,030	401	50,607	16,847	2.04%	2.38%	43	22
WLG2049A	Hon French 4A	21		778		44,356		1.75%		37	
WLG2053A	French Lang Immersion 1A		2		56		1,884		2.97%		28
WLG2054A	French Lang Immersion 2A		2		62		1,884		3.29%		31
WLG2055A	French Lang Immersion 3A		2		62		1,884		3.29%		31
WLG2056A	RMS French 3A	1		23		2,366		0.97%		23	
WLG2057A	AP French LC A	14		234		31,871		0.73%		17	
WLG2071A	Italian 1A	4		147		9,704		1.51%		37	
WLG2072A	Italian 2A	5		104		11,094		0.94%		21	
WLG2075A	Italian 5A	1		5		2,056		0.24%		5	
WLG2076A	Hon Italian 3A	1		3		1,838		0.16%		3	
WLG2078A	AP Italian LC A	1		12		2,056		0.58%		12	
WLG2081A	Japanese 1A	4		133		9,351		1.42%		33	
WLG2082A	Japanese 2A	4		99		9,351		1.06%		25	
WLG2085A	Japanese 5A	1		4		2,056		0.19%		4	
WLG2088A	Hon Japanese 3A	4		42		9,351		0.45%		11	
WLG2089A	Hon Japanese 4A	3		18		7,360		0.24%		6	
WLG2090	AP Japanese LC A	2		10		5,322		0.19%		5	
WLG2101A	Latin 1A	3		75		7,172		1.05%		25	
WLG2102A	Latin 2A	3		55		7,172		0.77%		18	
WLG2103A	Latin 3A	1		1		1,880		0.05%		1	
WLG2106A	Hon Latin 3A	2		41		5,116		0.80%		21	
WLG2107A	Hon Latin 4A	1		5		3,016		0.17%		5	
WLG2108A	AP Latin A	1		14		3,016		0.46%		14	
WLG2131A	Spanish 1A	25	39	2,762	4,793	51,997	34,982	5.31%	13.70%	110	123
WLG2132A	Spanish 2A	25	39	3,993	4,627	51,997	34,763	7.68%	13.31%	160	119
WLG2133A	Spanish 3A	1	1	58	55	2,056	868	2.82%	6.34%	58	55
WLG2135A	Spanish 5A	23		1,161		48,540		2.39%		50	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
WLG2136A	Spanish 6A	1		1		1,991		0.05%		1	
WLG2137A	Spanish 7A	1		9		1,870		0.48%		9	
WLG2138A	Hon Spanish 3A	25	27	4,051	1,720	51,997	24,758	7.79%	6.95%	162	64
WLG2139A	Hon Spanish 4A	23		2,820		48,540		5.81%		123	
WLG2140	NC Spanish		1		2		978		0.20%		2
WLG2141A	Spanish For Spanish 1A	19	18	1,558	816	39,844	15,517	3.91%	5.26%	82	45
WLG2142A	Spanish For Spanish 2A	19	14	1,588	418	39,844	12,483	3.99%	3.35%	84	30
WLG2143A	Spanish For Spanish 3A	18		1,066		37,964		2.81%		59	
WLG2147A	Spanish Lang Immersion 1A		7		357		5,999		5.95%		51
WLG2148A	Spanish Lang Immersion 2A		6		312		5,347		5.84%		52
WLG2149A	Spanish Lang Immersion 3A		3		104		2,677		3.88%		35
WLG2150A	Spanish Literacy 1A	5	13	63	584	10,776	11,826	0.58%	4.94%	13	45
WLG2151A	RMS Spanish 3A	1		40		2,366		1.69%		40	
WLG2152A	AP Spanish LC A	24		1,372		49,588		2.77%		57	
WLG2153A	AP Spanish Lit A	9		146		21,759		0.67%		16	
WLG2201A	IB Arabic 3A	1		5		2,377		0.21%		5	
WLG2202A	IB Arabic 4A	1		3		2,377		0.13%		3	
WLG2203A	IB Chinese 3A	1		4		2,377		0.17%		4	
WLG2204A	IB Chinese 4A	2		17		4,743		0.36%		9	
WLG2205A	IB Chinese 5A	2		20		4,743		0.42%		10	
WLG2206A	IB Chinese 6A	1		14		2,366		0.59%		14	
WLG2207A	IB Chinese 7A	2		2		4,743		0.04%		1	
WLG2208A	IB French 4A	6		113		12,061		0.94%		19	
WLG2209A	IB French 5A	8		106		15,988		0.66%		13	
WLG2210A	IB French 6A	8		117		15,988		0.73%		15	
WLG2211A	IB French 7A	7		59		14,438		0.41%		8	
WLG2221A	IB Japanese 4A	1		6		1,991		0.30%		6	
WLG2226A	IB Spanish 4A	6		323		12,061		2.68%		54	
WLG2227A	IB Spanish 5A	8		281		15,988		1.76%		35	

Course Code	Course	# High Schools Offering Course	# Middle Schools Offering Course	# HS Students Enrolled	# MS Students Enrolled	Total Students at HS Offering Course	Total Students at MS Offering Course	Percent of HS Students Enrolled Out of All Students in Schools that Offer Course	Percent of MS Students Enrolled Out of All Students in Schools that Offer Course	Average Number of HS Students Enrolled Per High School with Course	Average Number of MS Students Enrolled Per Middle School with Course
WLG2228A	IB Spanish 6A	8		242		15,988		1.51%		30	
WLG2229A	IB Spanish 7A	6		103		12,558		0.82%		17	
WLG2230A	IB Spanish Lang Lit 1A	4		54		6,998		0.77%		14	
WLG2231A	IB Spanish Lang Lit 2A	2		16		3,871		0.41%		8	
WLG2258A	MCPS PIB French 3A	1		1		1,577		0.06%		1	
WLG2265A	MCPS PIB Spanish 1A	1		1		1,577		0.06%		1	
WLG2266A	MCPS PIB Spanish 2A	1		7		1,577		0.44%		7	
WLG2267A	MCPS PIB Spanish 3A	1		12		1,577		0.76%		12	
WLG5129	CE Adv WL Am Sign Lang	9		22		20,609		0.11%		2	
WLG5130	CE Adv World Language	19		61		40,834		0.15%		3	

APPENDIX F

List of MCPS Courses that Can be Repeated for Credit

Art

Course Code	Course Name	Course Code	Course Name
ART2103A/B	Advanced Acting A	ART2009A/B	Hip Hop Dance
ART2152A/B	Advanced Fashion Production 4	ART2011A/B	Jazz Dance 1
ART2007A/B	Advanced Tap Dance 2A	ART2012A/B	Jazz Dance 2
ART2008A/B	Advanced Tap Dance 3	ART2013A/B	Jazz Dance 3
ART2064A/B	AP 2D Art & Design	ART2100A/B	Jazz Ensemble
ART2040A/B	AP 2D Photography	ART2150A/B	Jazz Lab Band
ART2041A/B	AP 2D Photography DP	ART2005A/B	Modern Dance
ART2066A/B	AP 3D Art & Design	ART2084A/B	Music Technology
ART2062A	AP Drawing	ART2153A/B	Musical Theatre
ART2063A/B	AP Drawing DP	ART2155A/B	Philharmonic Orchestra
ART2014A/B	Ballet 1	ART2071A/B	Piano HS 1
ART2015A/B	Ballet 2	ART2072A/B	Piano HS 2
ART2090A/B	Chamber Singers	ART2073A/B	Piano HS 3
ART2016A/B	Choreography 1	ART2074A/B	Piano HS 4
ART2087A/B	Chorus HS 1	ART2105A/B	Play Directing
ART2088A/B	Chorus HS 2	ART2091A/B	Show Choir
ART2089A/B	Chorus HS 3	ART2104A/B	Stage Design
ART2177	Color Guard	ART2094A/B	Symphonic Band
ART2093A/B	Concert Band	ART2099A/B	Symphonic Orchestra
ART2097A/B	Concert Orchestra	ART2006A/B	Tap Dance 1
ART2003A/B	Dance 2	ART2154A/B	Wind Ensemble
ART2004A/B	Dance 3A		
ART2010A/B	Dance Company		
ART2000A/B	Dance Fine Art		
ART2082A/B	Guitar HS 1		
ART2083A/B	Guitar HS 2		
ART2080A/B	Guitar HS 3		
ART2081A/B	Guitar HS 4		

All Other Subjects

Course Code	Course Name
AMC2009	Intern Art Media
CHT2001	Intern Hospitality Tour
CON2038	Electric Intern
CON2039	HVAC Intern
CON2040	Masonry Intern
CON2041	Plumbing Intern
ENG2051A/B	Academic Reading
ENG2019A/B	Academic Reading DP
ENG2088	HS Developmental Reading 2
ESL2074A/B	HS Developmental Reading SLIFE 2
ITC2028	Network Ops Intern
ITC2029	Network Ops Research
MAT2026A/B	Math Appr to Prob Solving MAPS A Tier
TRN2015	Auto Tech Intern
TRN2016	Auto Collision Repair Intern

APPENDIX G
List of MCPS AP Courses by High School, Spring 2025

AP Course	Einstein	BCC	Clarksburg	Magruder	Damascus	Gaithersburg	Blake	Kennedy	Blair	Northwest	Northwood	Paint Branch	Poolesville	Quince Orchard	RM	Rockville	Seneca Valley	Sherwood	Springbrook	Wootton	Whitman	WJ	Watkins Mill	Wheaton	Churchill
AP 2D Art & Design A/B	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓		✓	✓
AP 2D Art & Design DP														✓	✓					✓		✓			✓
AP 2D Photography A/B			✓	✓		✓	✓		✓	✓	✓	✓	✓							✓	✓	✓		✓	✓
AP 2D Photography A/B DP																						✓			
AP 3D Art & Design A/B	✓	✓	✓	✓			✓		✓		✓		✓	✓		✓		✓		✓	✓	✓		✓	✓
AP 3D Art & Design DP														✓						✓		✓			
AP Art History A/B					✓				✓	✓			✓	✓	✓						✓	✓			✓
AP Drawing A/B	✓		✓	✓		✓	✓						✓	✓		✓		✓	✓	✓	✓	✓		✓	✓
AP Drawing A/B DP			✓							✓				✓						✓	✓	✓			✓
AP Music Theory A/B		✓	✓	✓	✓				✓	✓	✓		✓	✓					✓	✓	✓	✓			✓
AP Visual Art Center 3A/B DP	✓																								
AP Visual Art Center 4A/B DP	✓																								
AP Macroeconomics BMF				✓		✓																			
AP Microeconomics BMF				✓		✓																			
AP Language and Comp A/B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓
AP Literature and Comp A/B	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓
English 10 AP Seminar A/B			✓		✓	✓					✓	✓	✓	✓				✓	✓	✓				✓	
AP Comp Sci Prin PLTW A/B			✓										✓			✓							✓		
AP Computer Sci JAVA A/B	✓	✓	✓		✓	✓	✓			✓	✓	✓		✓		✓	✓		✓	✓	✓	✓		✓	
AP Computer Sci Prin TE A/B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AP Computer Science JAVA A/B TE	✓		✓						✓				✓		✓			✓							✓
AP CS Principles in Swift A/B																						✓	✓		
AP AB Calculus A/B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AP BC Calculus A/B	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
AP Precalculus A/B				✓	✓	✓		✓		✓	✓			✓		✓	✓		✓				✓		
AP Statistics A/B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AP Research A/B					✓		✓						✓							✓					✓
AP Seminar A/B					✓		✓			✓			✓							✓		✓			✓

AP Course	Einstein	BCC	Clarksburg	Magruder	Damascus	Gaithersburg	Blake	Kennedy	Blair	Northwest	Northwood	Paint Branch	Poolesville	Quince Orchard	RM	Rockville	Seneca Valley	Sherwood	Springbrook	Wootton	Whitman	WJ	Watkins Mill	Wheaton	Churchill
SPAP Biology A/B						✓			✓																
AP Biology A/B DP		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓		✓	✓
AP Chemistry A/B									✓						x									✓	
AP Chemistry A/B DP		✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓		✓		✓	✓	✓	✓	✓		✓	✓
AP Environmental Sci A/B		✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓			✓		✓	✓	✓		✓	✓
AP Physics 1A/B			✓	✓		✓	✓		✓	✓	✓	✓	✓	✓		✓			✓	✓	✓	✓		✓	✓
AP Physics 2A/B													✓												
AP Physics A DP												✓								✓	✓				
AP Physics B DP												✓								✓	✓				
AP Physics C A/B		✓		✓	✓		✓							✓	✓						✓			✓	
AP Physics C ElecMagnet A/B									✓				✓									✓			✓
AP Physics C MecElecMag A/B									✓																
AP Physics C Mechanics A/B			✓						✓	✓			✓					✓	✓			✓			✓
AP African American Studies A/B		✓	✓						✓	✓		✓		✓			✓		✓		✓	✓	✓		✓
AP European History A/B		✓	✓	✓	✓					✓										✓		✓			✓
AP GovPolitics Comp A/B		✓	✓	✓					✓					✓				✓		✓	✓	✓			✓
AP GovPolitics US NSL A/B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AP GovPolitics US NSL BX																✓	✓							✓	✓
AP Human Geography A/B		✓			✓		✓		✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓		✓	✓
AP Macroeconomics	✓	✓	✓				✓		✓	✓			✓	✓	✓					✓	✓	✓			✓
AP Microeconomics	✓	✓	✓		✓		✓		✓	✓			✓	✓	✓					✓	✓	✓			✓
AP Psychology A/B		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
AP US History A/B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AP World History A/B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓
AP Chinese LC A/B															✓					✓	✓	✓			✓
AP French LC A/B		✓	✓			✓	✓		✓	✓	✓	✓		✓	✓					✓	✓	✓		✓	✓
AP Italian LC A/B																					✓				
AP Japanese LC A/B									✓												✓				
AP Latin A/B																						✓			
AP Spanish LC A/B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
AP Spanish Lit A/B		✓		✓		✓			✓	✓									✓		✓	✓		✓	

APPENDIX H

Availability of Elective Courses for Courses that are Available at Least Half of MCPS High Schools (at least 12 schools) by FARMS Rate, Spring 2025 (Highlighted by Quartile)

	Whitman	Churchill	Poolesville	Wootton	WJ	Sherwood	BCC	RM	Damascus	Northwest	Clarksburg	QO	Magruder	Rockville	Blair	Einstein	Seneca Valley	Blake	Paint Branch	Gaithersburg	Wheaton	Springbrook	Northwood	Watkins Mill	Kennedy
FARMS Rate	<5%	9.7%	10.8%	11.9%	16.7%	20.3%	22.5%	30.5%	30.6%	35.0%	36.4%	36.5%	44.0%	44.5%	44.7%	47.1%	49.9%	54.9%	56.8%	57.6%	58.3%	61.0%	62.9%	64.4%	70.4%
Course																									
Education																									
Child Growth and Development A/B	✓			✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓		✓	✓	
Learning Environment Preschoolers A/B	✓			✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓		✓	✓	
Child Development Association Portfolio A/B	✓					✓	✓			✓	✓	✓		✓			✓		✓	✓	✓		✓		
English																									
Yearbook 1A/B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Journalism A/B	✓	✓	✓	✓	✓		✓	✓	✓			✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
Creative Writing A/B	✓	✓			✓		✓	✓		✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	
Yearbook 2A/B				✓	✓	✓	✓	✓	✓		✓	✓			✓		✓	✓	✓	✓	✓			✓	✓
Techniques of Advanced Journalism	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓		✓	✓	✓					✓	
Publications Editing/Business	✓		✓	✓				✓			✓		✓		✓	✓	✓				✓	✓		✓	
TV Production 1																									
Engineering																									
Engineering Design Development	✓		✓			✓	✓				✓	✓	✓	✓			✓		✓		✓	✓		✓	
Digital Electronics	✓		✓			✓	✓				✓	✓		✓			✓		✓		✓	✓		✓	
Principals of Engineering	✓		✓			✓	✓				✓	✓	✓	✓			✓		✓		✓	✓			
Information Technology																									
Foundations Computer Science TE A	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓
Computer Programming 1A/B				✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

Computer Programming 3 Advanced Topics A/B	✓	✓		✓	✓		✓			✓	✓	✓		✓	✓		✓	✓	✓	✓	✓		✓	✓	

Availability of Elective Courses for Courses that are Available at Least Half of MCPS High Schools (at least 12 schools) by FARMS Rate, Spring 2025 (Highlighted by Quartile), Continued

	Whitman	Churchill	Poolesville	Wootton	WJ	Sherwood	BCC	RM	Damascus	Northwest	Clarksburg	QO	Magruder	Rockville	Blair	Einstein	Seneca Valley	Blake	Paint Branch	Gaithersburg	Wheaton	Springbrook	Northwood	Watkins Mill	Kennedy
FARMS Rate	<5%	9.7%	10.8%	11.9%	16.7%	20.3%	22.5%	30.5%	30.6%	35.0%	36.4%	36.5%	44.0%	44.5%	44.7%	47.1%	49.9%	54.9%	56.8%	57.6%	58.3%	61.0%	62.9%	64.4%	70.4%
Course																									
Science*																									
Anatomy and Physiology A/B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓		
Forensic Science A/B	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓		✓	✓	
Earth Systems and Sustainability A/B		✓	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓
Astronomy with Physics A/B	✓		✓	✓	✓		✓		✓	✓	✓			✓	✓		✓	✓	✓	✓	✓	✓	✓		✓
Social Studies																									
Personal Finance	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓
Law	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓		✓	✓	✓	✓			✓	
Sociology 1		✓		✓		✓		✓	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	
Psychology 1		✓	✓							✓	✓				✓	✓	✓	✓		✓	✓		✓	✓	
Technology																									
Foundations Of Technology A/B			✓		✓	✓		✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓			✓	✓

*These courses can meet the science graduation requirement but are included in this table because they fall outside the "typical" science pathway of biology, chemistry, and physics.