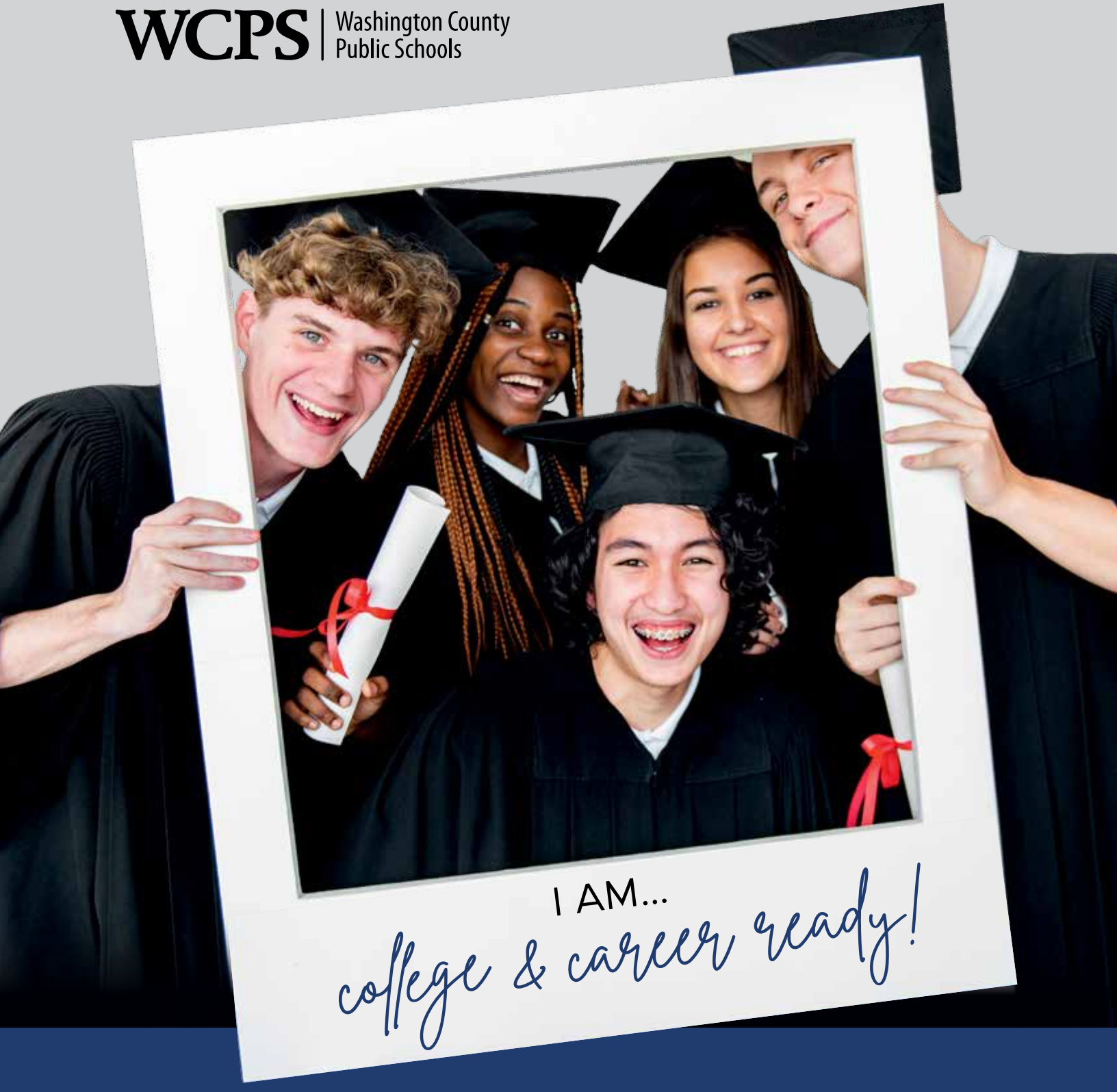
WCPS | Washington County Public Schools



2024-2025 HIGH SCHOOL PROGRAM OF STUDIES

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WCPS
Washington County
Public Schools

Students,

You are embarking on a pivotal time in your academic career. The pathways you choose in high school will provide you with opportunities for the most successful future, whether you would like to pursue higher education, a career, military service, or other endeavors after graduation.

Washington County Public Schools (WCPS) offers diverse learning options to meet the unique skills, abilities, and interests of our students. In this Program of Studies, you will discover traditional courses, special programs, and other enriching educational experiences. You can review the general course descriptions, graduation requirements, University System of Maryland requirements, and Career and Technical Education (CTE) Completer program information. These considerations will help you make the best plan for your education and your future.

No student has to develop a plan on your own. Your school counselors will help you chart your specific course of action by selecting courses that meet your academic interests and complement your strengths and passions. There is a sample secondary education plan at the back of this booklet. This will give you an idea of how you can lay out the years ahead of you to ensure you make the most of your high school opportunities. This is also an ideal time to explore various academic options and choose challenging courses that will prepare you for life beyond graduation.

You have a team of educators who are rooting for you! Your teachers, counselors, and school administrators are excited to watch you grow in your education and to see you achieve at your highest potential. If you, your parents, or guardians have questions about the registration process, graduation requirements, or program options, please contact your school counselor.

I wish you all the best in your pursuits this year and beyond.

Sincerely,

Dr. David T. Sovine

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GRADUATION REQUIREMENTS

To earn a high school diploma, students must:

- Earn the minimum number of required credits
- Complete the requirements for a Completer Program
- Meet the state assessment requirements
- Complete a minimum of 75 hours of approved Student Service Learning (SSL) hours

CREDIT REQUIREMENTS

The minimum credit requirements for graduation from Washington County Public Schools adhere to but are not limited by, the standards established by the State of Maryland. Students must earn a minimum of 24 credits as outlined in the table below.

STUDENTS MUST EARN A MINIMUM OF 24 CREDITS AS OUTLINED IN THE TABLE BELOW:

SUBJECT	REQUIREMENTS	ASSESSMENT	CREDITS
ENGLISH	☐ 4 English credits	*English MCAP**	4
MATHEMATICS	☐ 1 Algebraic concepts ☐ 1 Geometric concepts ☐ 2 additional Mathematics credits *Students shall enroll in a mathematics course in each year of high school.*	*Algebra I MCAP**	4
SCIENCE	☐ Biology (Life Science) ☐ 2 additional Science credits	*Life Science MISA†*	3
SOCIAL STUDIES	☐ 1 United States Studies II ☐ 1 Local, State, and National Government ☐ 1 World History	*Government MCAP**	3
PHYSICAL EDUCATION	☐ Physical Education I		1
HEALTH/ FINANCIAL LITERACY	☐ Health Education with Financial Literacy		1
FINE ARTS	☐ Fine Arts		1
TECHNOLOGY EDUCATION	☐ Foundations of Technology or Foundations of Computer Science		1
ELECTIVES	☐ Electives		6

** Maryland Comprehensive Assessment Program (MCAP)*
† Maryland Integrated Science Assessments (MISA)

COLLEGE AND CAREER READINESS

CREDITS FROM MIDDLE SCHOOL

Credit will be awarded for courses taken prior to enrollment in high school in each academic curricular area under the following circumstances:

- The course is identified as an approved course for high school credit;
- The middle school course follows the outcomes and rigor of the approved high school course;
- The student passed the approved middle school course and any associated state assessments.

Credit awarded in the middle school will not be calculated in a student's high school grade point average (GPA). Only grades earned for courses taken in high school will be used in the calculation of a student's high school GPA.

Credit will not be awarded in the middle school when it is determined that the course should be repeated before continuing with the sequence of courses in any given content area. Transfer students will have transcripts reviewed on an individual basis to determine if MSDE guidelines permit the awarding of credit.

COMPLETER REQUIREMENTS

Students must also earn credits to satisfy the **University System of Maryland Completer Program** or a **Career and Technical Education (CTE) Completer Program.** A CTE completer program is a three-or four-course pathway that includes a set of requirements that are designed to prepare students for a career in a particular field. The University System of Maryland completer requires two (2) World Language credits in the same language and four (4) credits in mathematics. The four (4) mathematics credits must include Algebra I, Geometry, and Algebra II. Students who complete Algebra II prior to their final year must complete the four-year mathematics requirement by taking a course or courses that utilize non-trivial algebra such as Pre-Calculus/Trigonometry, Calculus, Statistics, and College Algebra. Financial Literacy does not meet this requirement.

MARYLAND COMPREHENSIVE ASSESSMENT PROGRAM (MCAP)

Students must participate in MCAP assessments for English Language Arts (ELA), Math, Life Science, and Government to meet graduation assessment requirements.

1. Students enrolled in Biology and/or Government courses will take a required end-of-the-course assessment that will account for 20 percent of the student's final grade.
2. Students enrolled in Algebra I and English 10 are required to take an end-of-the-course assessment to determine college and career readiness.

STUDENT SERVICE LEARNING (SSL) REQUIREMENTS

Students must complete a minimum of 75 hours of Student Service Learning (SSL) hours.

Students who earn and submit at least 300 service-learning approved hours by the end of the first semester of their senior year will earn the Senior SSL Honors Award.

Contact your school's Counseling Office for more information.

ALTERNATE ASSESSMENT ELA & MATH AND ALTERNATE MARYLAND INTEGRATED SCIENCE ASSESSMENT (ALT-MISA)

The Alternate Assessments for English Language Arts and mathematics are administered in grades 3–8 and grade 11. The Alt-MISA is administered in grades 5, 8, and 11. Students who participate in the alternate assessments have been determined eligible for participation by their Individualized Education Plan (IEP) teams and must participate in all three content areas.

COLLEGE AND CAREER READY (CCR) DETERMINATION

CCR stands for College and Career Ready. It means that a student has met the standards in English Language Arts and Mathematics that are required to be successful in an entry-level credit-bearing course or postsecondary training at a community college. To measure if a student is on track for college and career readiness, federal and state laws require all students in high school to participate in English and Mathematics MCAP assessments. The Blueprint for Maryland's Future law aims to have all students meet the CCR standard by the end of their 10th grade year. A student can become CCR in one of two ways.

OPTION 1

CCR IN ENGLISH	CCR IN MATH
Pass English 10 MCAP with a score of 750 or higher.	Pass Algebra I MCAP with a score of 750 or higher.

OPTION 2

CCR IN ENGLISH	CCR IN MATH
Earn a 3.0 unweighted grade point average at the conclusion of the student's 10th grade school year.	Earn a 3.0 unweighted grade point average at the conclusion of the student's 10th grade school year and a final grade of a "C" or higher in Algebra I.

If a student is determined to not be on track for CCR in English Language Arts and mathematics, they will receive supplemental instruction in the respective subject area(s). Supplemental instruction may occur during the school day in additional intervention classes, and/or in tutoring services provided before and/or after school.

GRADING/HONORS RECOGNITION

GRADING

The Board of Education recognizes its responsibility for assuring the practice of regularly reporting the progress of students as they proceed through their formal educational experiences. Such reporting has several purposes: 1) to inform students and their parent(s) or legal guardian(s) of academic progress and needs with regard to the instructional program, 2) to give parent(s) or legal guardian(s) needed insights into their student's academic achievement, progress, and standing, 3) to provide teachers with information about the progress and needs of students in their classes, 4) to provide staff with information about the progress and needs of students, and 5) to inform colleges or prospective employers of the nature of a student's educational program and their achievement.

- **A** (90-100%)
  indicates performance that consistently exceeds Washington County standards & requirements
- **B** (80-89%)
  indicates performance that consistently meets & occasionally exceeds Washington County standards & requirements
- **C** (70-79%)
  indicates performance that meets Washington County standards & requirements
- **D** (60-69%)
  indicates performance that minimally meets Washington County standards & requirements
- **F** (0-59%)
  indicates failure to meet Washington County standards & requirements

REPORTING STUDENT PROGRESS

Report cards are available in digital format to parents at the conclusion of each marking period. The interim/progress report reflects the progress of the student through the date of issuance and does not represent the marking period or final grade.

PROMOTION

Students in grades 9 through 12 earn credits for graduation through completion of courses. Students must have a minimum of **four (4)** credits for promotion to grade 10, **ten (10)** credits for promotion to grade 11, and **sixteen (16)** credits for promotion to grade 12.

WEIGHTED QUALITY POINT VALUES

Weighted Quality Point Values are awarded to students who accept the challenges of more rigorous courses of study, while ensuring maintenance of a high grade point average (GPA).

GRADE	NON-WEIGHTED QUALITY POINT VALUE	ACCELERATED QUALITY POINT VALUE	AP®, IB, AND 200 LEVEL DUAL CREDIT QUALITY POINT VALUE
A	4.0	4.72	5.0
B	3.0	3.54	4.0
C	2.0	2.36	3.0
D	1.0	1.18	2.0
F	0.0	0.00	0.0

Advanced Placement (AP®)
International Baccalaureate® (IB)

HONOR ROLLS AND GRADUATION HONORS

An Honor Roll will be published in each school at the end of each marking period for grades 6–12.

A student must have B's and above in all subjects to be on the Honor Roll. To be on the Distinguished Honor Roll, a student must have all A's and above in all subjects.

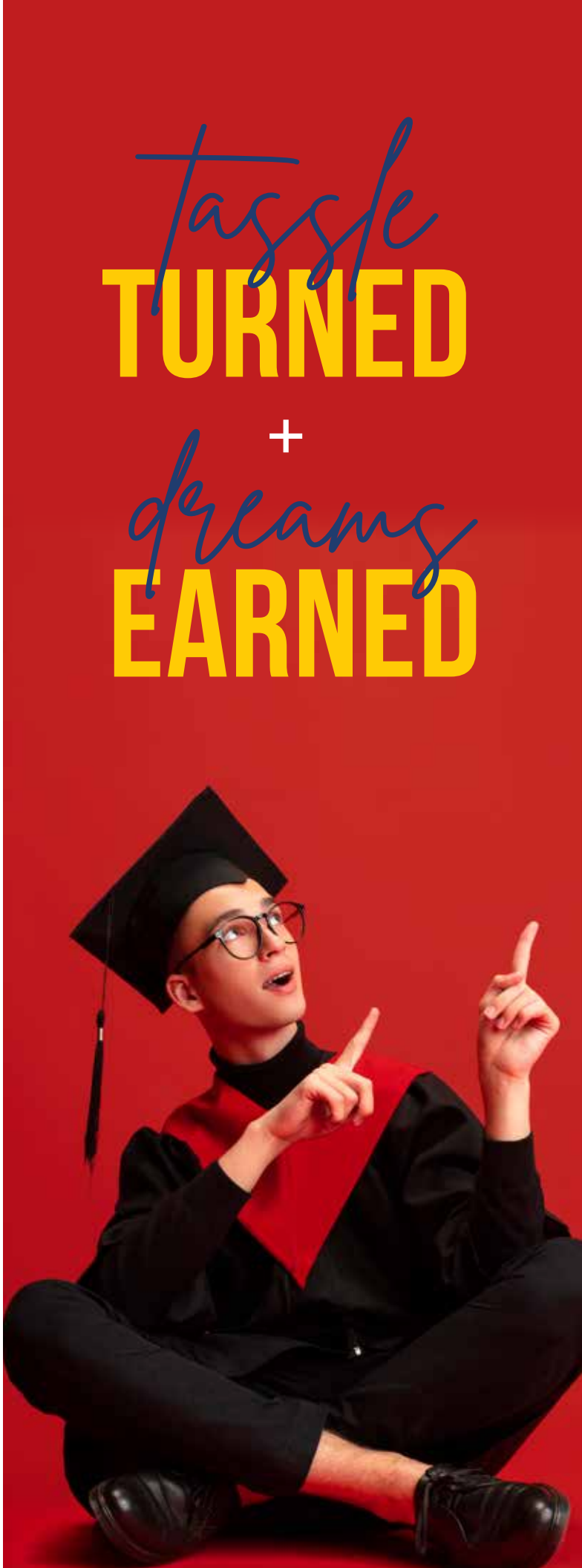
Academic Honors designation at commencement will be awarded as follows:

- **Highest Honors:** *minimum 4.0 GPA, at least 14 credits in courses taken in high school (grades 9-12) identified as Honors, AP®, and/or IB, and the completion of University System of Maryland* requirements.
- **High Honors:** *minimum 3.75 GPA, at least 12 credits in courses taken in high school (grades 9-12) identified as Honors, AP®, and/or IB.*
- **Honors:** *minimum 3.5 GPA*

MARYLAND SCHOLARS

The Maryland Scholars program is designed to encourage students to complete a rigorous course of study in high school to ensure that they are well prepared to succeed in college, the workplace, and in life. Students who participate in this course of study will contribute to a more highly skilled and productive workforce and a stronger, more prosperous economy. Maryland Scholars Requirements:

- 4 credits of English
- 4 credits of Math (Algebra I, Geometry, Algebra II) and one additional Math course beyond Algebra II
- 3 credits of Science (Biology, Chemistry, and one additional lab science – Physics preferred)
- 3 credits of Social Studies (from among: U.S. History, World History, Government, and Economics)
- 2 credits of the same World Language
- Minimum 3.0 G.P.A. or higher



ACADEMIC ELIGIBILITY

WCPS ACADEMIC ELIGIBILITY FOR PARTICIPATION IN HIGH SCHOOL EXTRACURRICULAR ACTIVITIES, INCLUDING ATHLETICS

Note: The following information is a general summary of the WCPS academic eligibility requirements. For more specific information, please refer to the Board of Education Policy IGDL, Student Activities Eligibility (High Schools), and the academic eligibility section of the Washington County Public Secondary Schools Athletic Association (WCPSSAA) Handbook (revised annually). In order for students to fully participate in extracurricular activities, including high school athletics, they must attain specific academic standards. A student will be eligible to participate in extracurricular activities unless the student:

- Is enrolled in five (5) or more courses per semester and receives a failing grade in two (2) or more courses in a marking period; or
- Is enrolled in four (4) or fewer courses per semester and receives a failing grade in one or more courses in a marking period.

Eligibility shall be determined by the previous marking period grades except for the first marking period. Eligibility for the first marking period is determined by the final grades of the preceding school year. For interpretation and/or additional information, please check with the athletic director in each high school.

Ninth graders are exempt from this policy for the first nine (9) -week marking period.

NATIONAL COLLEGIATE ATHLETIC ASSOCIATION (NCAA) DIVISION I–ELIGIBILITY STANDARDS

For athletic scholarships at Division I colleges, a procedure must be followed. All student-athletes must register with the NCAA Eligibility Center. There is a charge of $100.00 for this. Students must meet the NCAA's academic standards to practice, compete, and receive an athletic scholarship as a freshman. The standards are different for different divisions.

Students planning to enter college who wish to be eligible to participate in athletics at a Division I college or university will need to show the following *16 core-course credits* on their high school transcripts:

- 4 credits in English
- 3 credits of mathematics (Algebra I or higher)
- 2 credits of natural/physical science (one must be a lab science)
- 1 additional credit of English, math, or natural/ physical science
- 2 credits of social studies
- 4 additional core courses of English, math, science, social science, world language or nondoctrinal religion/philosophy
- Complete 10 of the 16 NCAA-approved core-course credits, including seven in English, math or science, before the start of the seventh semester
- Complete the 16 NCAA-approved core-course credits in eight academic semesters or four consecutive academic years from the start of ninth grade
- Earn a minimum 2.3 core-course GPA for Division I and 2.2 core-course GPA for Division II
- Submit your final transcript with proof of graduation to the Eligibility Center

Students who do not meet core-course progression requirements may still be eligible to receive athletics aid and practice in the initial year of enrollment by meeting *academic redshirt* requirements.

As of January 2023, standardized test scores are *not required* for ALL student-athletes who initially enroll full-time on or after August 1, 2023. During the 2023 NCAA Convention, **Divisions I** and **II** adopted legislation to remove standardized test scores for these students.

If you want to compete in Division I NCAA sports, you need to register with the NCAA Eligibility Center at eligibilitycenter.org to make sure you stay on track to meet initial eligibility standards.

If you have questions about your eligibility or the registration process, call the NCAA toll-free at 877-262-1492, Monday-Friday, 9 a.m. to 5 p.m. EST.

MAGNET PROGRAMS

WCPS provides multiple opportunities for our advanced and gifted learners. One opportunity is through our Magnet programs. Magnet programs aim to provide students with a challenging and rigorous curriculum that goes beyond the traditional classroom setting. Students apply for these programs during their 8th-grade school year.

ACADEMIC LEADERSHIP ACADEMY (ALA) SOUTH HAGERSTOWN HIGH SCHOOL

The Academic Leadership Academy, an academic Magnet program based at South Hagerstown High School, provides students with ample opportunity to earn college credit while building leadership skills. Students have the opportunity to demonstrate those skills by being leaders in their school and local community.

ALA students attend a three-day summer orientation prior to beginning their freshman year at South High. Following freshman year, students in ALA must be enrolled in a minimum of two AP® and/or Dual Enrollment courses per academic year. For more information on the Academic Leadership Academy, please call South Hagerstown High at 301-766-8369.

- **REQUIRED COURSES:** AP® U.S. History, AP® Government, ALA Honors English 9, AP® Seminar Honors English 10, AP® Language & Composition
- **RECOMMENDED COURSES:** AP® Literature and Composition (12th Grade), SHHS's Bio-Chem Split

AP® CAPSTONE™ CLEAR SPRING HIGH SCHOOL

AP® Capstone™ is an academic Magnet program based at Clear Spring High School. AP® Capstone includes two courses, designed with an interdisciplinary format, that promote critical and creative thinking, argumentation, and research skills: AP® Seminar and AP® Research. Both courses include performance tasks, assessments, and application of research methodology, which complement the other AP® Courses that AP® Capstone participants will take. AP® Seminar and AP® Research permit the in-depth pursuit of a topic of interest at the local, national, or global levels.

At least four AP® courses will be taken in addition to AP® Seminar and AP® Research. By earning the College Board's AP® Capstone Diploma, participants distinguish themselves to colleges and universities, as these students have actively practiced the real-world skills necessary for college and career. For more information about AP® Capstone™, please call Clear Spring High School at 301-766-8082 and ask for the AP® Coordinator.

BARBARA INGRAM SCHOOL FOR THE ARTS (BISFA)

The Barbara Ingram School for the Arts is an academic and arts Magnet school located in downtown Hagerstown. The school provides students with a rigorous academic education and intensive pre-professional training in one of the following eight areas:

- Creative Writing
- Visual Arts
- Dance
- Instrumental Music
- Theater
- Vocal Music
- Computer Game Development & Animation
- Cinematography

The school offers students training in these eight areas of concentration with a rigorous, comprehensive, college preparatory curriculum rooted in intense, pre-professional training in the arts that encourages excellence and success as students, artists, and cultural leaders. BISFA, a U.S. News and World Report Gold Medal school, was ranked eighth among Maryland schools.

BISFA has a unique admissions process designed to identify students with a passion for the arts, no academic criteria are used. However, once students are admitted, they must all pursue a rigorous academic curriculum. Students can access free tutoring and test preparation to meet academic and artistic benchmarks. BISFA student test scores are consistently among the highest in the county and state. Graduation and college placement rates are near 100%.

INTERNATIONAL BACCALAUREATE® DIPLOMA PROGRAMME (IBDP) AT NORTH HAGERSTOWN HIGH

The International Baccalaureate® Diploma Programme, based at North Hagerstown High School, provides hardworking, motivated, organized, and creative students the opportunity to pursue a rigorous pre-university course of study. The IBDP is a comprehensive two-year curriculum that begins in the 11th grade.

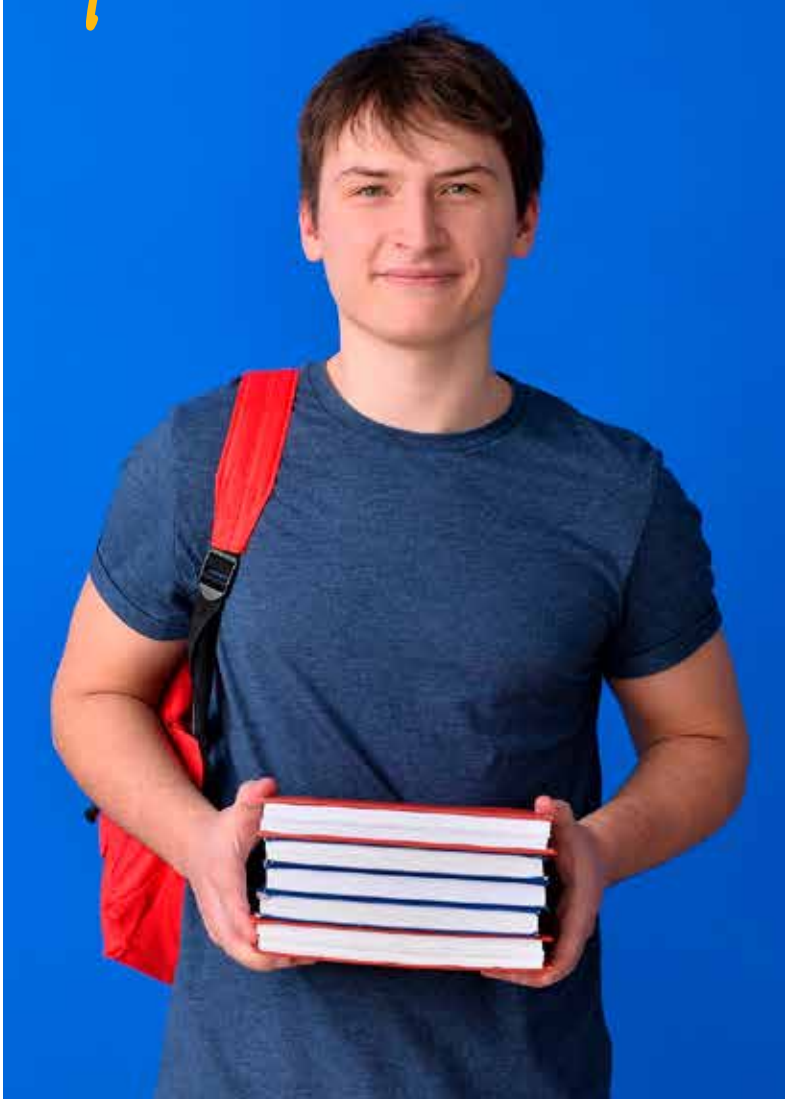
Descriptions of the International Baccalaureate® courses that will be offered can be found in each content section throughout this booklet. Students may receive college credit from participating universities by earning an IB diploma. Students receive recognition from the International Baccalaureate® Organization for IB courses by completing the assessment process of an internal assessment and two or three external assessments. Students successfully completing all requirements may earn an IB diploma.

Washington County Public Schools pays for the cost of each exam. Enrollment in the International Baccalaureate® Diploma Programme is open to students from all county schools; ideally, students will complete all 9th through 12th grade classes at North Hagerstown High. For more information on the IB Diploma Programme, please call North Hagerstown High at 301-766-8238 and ask for the IB coordinator.

WANT TO LEARN MORE?
FOR MORE INFORMATION, VISIT:

wcpsmd.com/ps-magnet

PLAN YOUR WAY *forward!*



EARLY COLLEGE PROGRAMS

ARTICULATION CREDIT

Faculty and staff from Washington County Public Schools (WCPS) and Hagerstown Community College (HCC) have cooperatively developed course and program articulation requirements and procedures. In order to receive articulated credits, graduates of WCPS must be enrolled at HCC as students in good standing and meet course and program requirements as stated in this document. Additionally, students must submit an Articulation Certification form, signed by a high school program faculty member and school counselor. Forms are available at every high school and at HCC. Students awarded articulated credits under this agreement will not be charged tuition for these credits. Articulated credits are generally awarded within 12 months of high school graduation, although individual course and program requirements may vary. While HCC maintains transfer agreements with many baccalaureate institutions, students should be aware that some institutions and programs might not accept college credits granted for high school work. Students should consult with their HCC advisor prior to transfer.

DUAL CREDIT

WCPS and HCC work in partnership to provide WCPS students with opportunities to earn college credit while in high school. Dual credit courses are those that award both high school credit and college credit. Upon successfully completing a dual credit course, students will be awarded both high school and college credit. The agreement between WCPS and HCC allows eligible students to have WCPS pay for up to 60 college credits while the student is enrolled in high school. WCPS will only pay for approved dual credit courses. High school students may take courses at their high school, on the HCC campus, or in select off-campus locations.

DEGREE PROGRAMS

Associate of Science (AS) and Associate of Arts (AA) degrees are two-year degrees offered by most community colleges and some four-year colleges. Most AS and AA degrees are transfer degrees as they provide an academic foundation. To make the transfer process easier, many community colleges have transfer agreements with four-year institutions. These agreements often ensure that the credits earned while completing an AS or AA degree meet the general education requirements at the transfer institution. Students who are interested in transferring to a four-year university should always check with the university to see if and how HCC credits transfer. Some dual credit classes may not transfer to other colleges and institutions. To learn more about the degree programs offered, visit the *Early College Programs* page on the *Hagerstown Community College* website.

Source: American Association of Community Colleges. The associate degree. AACC Policy Statement 1998:2.

TRiO: UPWARD BOUND PROGRAM

The TRiO: Upward Bound Program is a year-round college-preparatory program made possible through a five-year grant from the U.S. Department of Education. HCC's Upward Bound Program is intended to assist income-eligible and/or first generation college-bound high school students in the successful completion of secondary education by preparing them academically and socially for enrollment and completion of higher education. This is accomplished by providing participants with rigorous and nurturing academic courses; tutoring services; college preparatory workshops; academic, college, and financial aid advising; career exploration; leadership opportunities; and cultural enrichment field trips. HCC's Upward Bound program will serve 70 students annually from North Hagerstown, South Hagerstown, Williamsport high schools, and Hancock Middle-Senior High School. To learn more, visit the *Upward Bound* page on the *Hagerstown Community College* website.

WANT TO LEARN MORE?
FOR MORE INFORMATION, VISIT:

wcpsmd.com/ps-earlycollege

dream big

PLAN BIGGER!

AVID (ADVANCEMENT VIA INDIVIDUAL DETERMINATION)

AVID is a four-year, in-school academic support and college readiness system that prepares students for college eligibility and success. AVID focuses on students in the academic middle who have the desire to attend college and the willingness to work hard. Students who are capable of completing rigorous curriculum but need support to reach their potential are selected to participate in AVID after an application and interview process. AVID eases students on the college track into Honors and Advanced Placement courses as appropriate to students' strengths. Formally trained tutors facilitate AVID students' access to rigorous curriculum through twice-weekly tutoring sessions. The involvement of parents is a priority in AVID. Parents sign a contract agreeing to support all AVID academic requirements, encourage and support their children's academic success, and attend AVID parent meetings. The AVID program is offered at North Hagerstown, Smithsburg, and South Hagerstown high schools.

ENGLISH LANGUAGE ARTS (ELA)

GRADUATION REQUIREMENTS: Students are required to earn four (4) credits in English to meet the requirements to earn a high school diploma.

DUAL CREDIT AND COLLEGE BOARD® ADVANCED PLACEMENT (AP®)COURSES

Dual credit courses are courses that allow high school students to earn Hagerstown Community College (HCC) credit while still in high school. These courses are taught by high school teachers who have been approved by HCC to teach the course. Advanced Placement Courses follow a curriculum set by the College Board®. Students who take these courses may earn college credit if they score well on the corresponding AP exam.

COLLEGE AND CAREER READINESS

In Maryland, students become College and Career Ready (CCR) in English by passing the Maryland Comprehensive Assessment Program (MCAP) in 9th or 10th grade. If are student not CCR in English by the end of 10th grade, WCPS is required to provide additional support to help them achieve proficiency. To meet this requirement, students may need to take additional coursework or complete supplemental instruction before or after school.

WHAT SHOULD I CONSIDER WHEN SELECTING ENGLISH COURSES?

English courses improve literacy skills, including reading, writing, speaking, and listening. These skills are fundamental for academic success across all subjects, as well as for effective communication in daily life. When selecting English courses in high school, students should consider several factors to ensure they choose courses that align with their interests, academic goals, and future plans. Here are some key considerations:

- **Future Plans:** Think about how the course aligns with your future goals. For instance, if you plan to pursue a career in journalism, a course in media studies or creative writing might be more useful than one focused solely on classical literature.
- **College and Career Preparation:** Some courses are specifically designed to prepare students for college-level work or particular careers. AP® English and dual credit courses can provide college credit and rigorous preparation for university studies.
- **Teacher Recommendations:** Consult with your current English teachers or counselors. They can provide valuable insights into which courses might be best suited to your abilities and interests.
- **Interest and Enjoyment:** Choose courses that cover topics or literary genres of interest to you. This will make the learning process more enjoyable and engaging.

Did you know ?

Individuals with higher literacy skills generally have better employment opportunities, leading to higher income. Literacy enables access to higher education and training, which often leads to better-paying jobs.

LEARN WHICH PATH IS RIGHT FOR YOU
& READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-english

ENGLISH LANGUAGE ARTS (ELA) PATHWAYS

4 CREDITS REQUIRED				
	9TH GRADE MUST CHOOSE 1 CLASS	10TH GRADE MUST CHOOSE 1 CLASS	11TH GRADE MUST CHOOSE 1 CLASS	12TH GRADE MUST CHOOSE 1 CLASS
PATHWAY 1	English 9	English 10	English 11	English 12
PATHWAY 2	Honors English 9	Honors English 10	Honors English 11 AP Literature & Composition AP Language & Composition English Composition Advanced English Comp Technical Writing / Gr 12	AP Literature & Composition AP Language & Composition English Composition Advanced English Comp Technical Writing / Gr 12
		ENG10: AP Seminar		
ELECTIVES		Creative Writing	Creative Writing Journalism I Journalism II Public Speaking	

Dual Enrollment

MATHEMATICS

GRADUATION REQUIREMENTS: Students are required to enroll in math courses all four years of high school and earn four (4) credits in mathematics to earn a Maryland High School Diploma. This includes one (1) credit in Algebra I and one (1) credit in Geometry. When reviewing the pathways on the next page, it is important for the student to realize that all of the pathways can lead to college or the workforce after graduation. Students are not limited to the courses in a single pathway. Rather, students may select courses in multiple pathways to attain their graduation requirements.

UNIVERSITY SYSTEM OF MARYLAND COMPLETER (USM)

The University System of Maryland completer is a set of requirements that high school students must meet to be considered for admission to one of the universities in the University System of Maryland. To earn a USM completer, a student must have one (1) credit in Algebra I, Geometry, and Algebra II. In addition, they need to take a math course of Algebra II or higher in their senior year. *All students considering a University System of Maryland school should complete the University System of Maryland completer*.

COLLEGE AND CAREER READINESS (CCR)

In Maryland, students become CCR in Math by passing the Maryland Comprehensive Assessment Program (MCAP) in Algebra. If a student does not earn a passing score on the Algebra I assessment, WCPS is required to provide additional support to help the student achieve proficiency. To meet this requirement, a student may need to take additional coursework or complete additional instruction before or after school.

DUAL CREDIT AND COLLEGE BOARD® ADVANCED PLACEMENT (AP®) COURSES

Dual credit courses are courses that allow high school students to earn Hagerstown Community College (HHC) credit while still in high school. These courses are taught by high school teachers who have been approved by HCC to teach the course. Advanced Placement courses follow a curriculum set by the College Board®. Students who take these courses may earn college credit if they score well on the corresponding AP exam.

WHAT SHOULD I CONSIDER WHEN SELECTING MATH COURSES?

- **Career Aspirations:** Certain professions, especially in STEM (Science, Technology, Engineering, and Mathematics) fields, require advanced math skills. Tailor your math courses to align with your career goals. The employment rate within math-related occupations is anticipated to grow at a much faster pace compared to the average rate for all professions between 2022 and 2032. This growth is expected to yield roughly 33,500 job opportunities annually, mainly due to employment expansion and the necessity to replace workers who permanently exit these occupations *(U.S. Bureau of Labor Statistics)*.
- **College Admissions Requirements:** Many colleges have specific math course requirements, especially for STEM majors.
- **Course Prerequisites:** Some courses require successful completion of earlier courses. Check prerequisites for the math courses in which you're interested.
- **Consult with Counselors or Teachers:** Seek guidance from school counselors or math teachers. They can provide insights into suitable course choices based on your abilities and aspirations.

Did you know ?

High school math courses are essential not only for science and engineering careers but also for fields like business, fashion design, manufacturing, and the construction trades when applying geometry or statistical concepts.

Math courses support the development of valuable skills for any future path such as critical thinking, problem-solving, perseverance, and innovation.

LEARN WHICH PATH IS RIGHT FOR YOU
& READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-math

MATHEMATICS PATHWAYS

MUST CHOOSE 1 PATHWAY (REQUIRED TO CHOOSE 1 CLASS EACH YEAR)

4 CREDITS REQUIRED AND 4 YEARS OF PARTICIPATION REQUIRED

	9TH GRADE MUST CHOOSE 1 CLASS	10TH GRADE MUST CHOOSE 1 CLASS	11TH GRADE MUST CHOOSE 1 CLASS	12TH GRADE MUST CHOOSE 1 CLASS	USM
PATHWAY 1	Algebra 1	Geometry	Algebra 2	Statistics Precalculus 1 (College Algebra) Quantitative Reasoning Statistics & Probability	✔
			Statistics Quantitative Reasoning Financial Literacy Statistics & Probability	Statistics Quantitative Reasoning Financial Literacy Statistics & Probability	
PATHWAY 2	Honors Algebra 1	Honors Geometry	Honors Algebra 2	AP Precalculus AP Statistics Statistics Precalculus 1 (College Algebra) Quantitative Reasoning	✔
			Statistics Statistics & Probability Quantitative Reasoning	Statistics Quantitative Reasoning	
PATHWAY 3	Honors Geometry	Honors Algebra 2	AP Precalculus	AP Calculus AB AP Calculus AB/BC AP Statistics	✔
			AP Statistics Precalculus 1 (College Algebra) Statistics Quantitative Reasoning	Statistics AP Statistics Precalculus 1 (College Algebra) Quantitative Reasoning	✔
PATHWAY 4	Honors Geometry Honors Algebra 2	AP Precalculus	AP Calculus AB/BC Calculus I (@HCC Only)	AP Statistics Calculus II (@HCC Only)	✔

Dual Enrollment

SCIENCE

GRADUATION REQUIREMENTS: Students are required to earn three (3) credits in Science to meet the requirements to earn a Maryland High School Diploma. All students are required to have one (1) credit in Biology. The content focus of each science course includes one or more of the following: life science, physical science, and/or earth and space science.

DUAL CREDIT AND COLLEGE BOARD® ADVANCED PLACEMENT (AP®) COURSES

Dual credit courses are courses that allow high school students to earn Hagerstown Community College (HCC) credit while still in high school. These courses are taught by high school teachers who have been approved by HCC to teach the course. Advanced Placement courses follow a curriculum set by the College Board®. Students who take these courses may earn college credit if they score well on the corresponding AP exam.

WHAT SHOULD I CONSIDER WHEN SELECTING SCIENCE COURSES?

Choosing science courses in high school is an important decision that can impact a student's future academic and career paths. Here are some key factors students should consider:

- **Interests and Strengths:** Students should consider their interests and strengths in various science subjects. If they are fascinated by living organisms, biology might be a great choice. If they enjoy understanding the physical world, physics or chemistry could be more suitable. If they are curious about the interactions in nature, Earth and space science would deepen appreciation of the dynamic world. Aligning courses with personal interests can make learning more enjoyable and effective.
- **Future Goals and Career Aspirations:** Students should think about how the science courses align with their future goals. For instance, if they aim to pursue a career in medicine, taking biology and chemistry would set a strong foundation. For any engineering field, physics, and higher-level math will provide the greatest benefit.
- **College Requirements and Expectations:** Some colleges have specific science requirements for admission. Researching these requirements can help students ensure they take the necessary courses. AP® or International Baccalaureate® (IB), and dual credit courses may also be beneficial for college applications.
- **Prerequisites and Progression:** Some science courses have prerequisites in science and math. It's important to plan accordingly to ensure that prerequisite courses are completed by the time you want to enroll in the course you want.
- **Balancing Course Load:** It's important to balance interests and aspirations with a realistic course load. Science courses often require significant time for labs, homework, and studying. It's important to balance science courses with other subjects and extracurricular activities.

SHOULD I TAKE A SCIENCE COURSE IN MY SENIOR YEAR?

Taking a fourth science class as a senior can be beneficial to you beyond your high school experience for several reasons.

- Foremost, you should consider the next steps in your education or career goals. Higher educational institutions, especially those with competitive STEM programs, prefer applicants with a strong background in science. Check the admission requirements of the colleges in which you are interested.
- For those who will be moving into a career, consideration should be given to the field of the career and whether it relies on science.

Finally, science courses are developed around building student skills in critiquing, investigating, and sense-making. All of these skills are crucial for a lifetime of success.

MARYLAND INTEGRATED SCIENCE ASSESSMENTS (MISA) LIFE SCIENCE

The Life Sciences MISA is a standardized test administered to high school students in Maryland. It measures their understanding of key concepts in life sciences, including biology, genetics, ecology, and evolution. The test is taken at the conclusion of their Biology course, typically in 9th or 10th grade. A student's score on the MCAP will account for 20% of their overall grade in the course. The test is designed to assess a student's mastery of the Maryland College and Career-Ready Standards for science and to ensure that they are prepared for college and careers in science-related fields.

LEARN WHICH PATH IS RIGHT FOR YOU
& READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-science

SCIENCE PATHWAYS

3 CREDITS REQUIRED

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
	MUST CHOOSE 1 CLASS	MUST CHOOSE 1 CLASS	MUST CHOOSE 1 CLASS	
PATHWAY 1	Integrated Physics and Chemistry	Biology	AP Environmental Science 🤝 Earth & Space Science Honors Chemistry Honors Physics Marine Science & Oceanography	*see electives below*
		Honors Biology		
PATHWAY 2	Honors Biology	Honors Chemistry	Adv. Anatomy & Physiology 🤝 AP Biology AP Chemistry AP Environmental Science 🤝 AP Physics Honors Physics Forensics Science 🤝 Marine Science & Oceanography	*see electives below*
		AVAILABLE 10TH GRADE YEAR	AVAILABLE 11TH & 12TH GRADE YEAR	
ELECTIVES		AP Environmental Science 🤝 Marine Science & Oceanography	Advanced Anatomy & Physiology 🤝 AP Biology AP Chemistry Honors Chemistry AP Environmental Science 🤝 AP Physics Honors Physics Earth & Space Science Forensics Science 🤝 Marine Science & Oceanography	

🤝 *Dual Enrollment*

SOCIAL STUDIES

GRADUATION REQUIREMENTS: Students are required to earn three (3) credits in Social Studies to earn a Maryland High School Diploma. Students must take the following three courses to meet the Maryland requirements for graduation: United States Studies II; Local, State, and National Government; and Modern World History. Social studies courses develop critical and analytical thinking, research, and writing skills. These skills are valuable across a wide range of subjects and careers.

DUAL CREDIT AND COLLEGE BOARD® ADVANCED PLACEMENT (AP®) COURSES

Dual credit courses are courses that allow high school students to earn Hagerstown Community College (HCC) credit while still in high school. These courses are taught by high school teachers who have been approved by HCC to teach the course. Advanced Placement courses follow a curriculum set by the College Board®. Students who take these courses may earn college credit if they score well on the corresponding AP® exam.

WHAT SHOULD I CONSIDER WHEN SELECTING SOCIAL STUDIES COURSES IN HIGH SCHOOL?

Choosing social studies courses in high school is an important decision that can impact a student's future academic and career paths. Here are some key factors students should consider:

- **Interests and Strengths:** Students should consider their interests in areas like history, economics, political science, psychology, or sociology. If these subjects fascinate you, you are likely to enjoy and excel in social studies courses.
- **Prerequisites and Progression:** Some social studies courses have prerequisites. It's important to plan accordingly to ensure that prerequisite courses are completed on time.
- **Future Goals and Career Aspirations:** Students should think about how the social studies courses align with their future goals. If you are considering a career in law, politics, education, journalism, social work, or any field that benefits from an understanding of societal structures and human behavior, social studies courses can provide valuable foundational knowledge. If you are undecided about your future career or field of study in college, social studies courses offer a way to explore different disciplines and keep your options open.
- **College Requirements and Expectations:** Some colleges have specific social studies requirements for admission. Researching these requirements can help students ensure you take the necessary courses. AP® or International Baccalaureate® (IB), and dual credit courses may also be beneficial for college applications.
- **Balancing Course Load:** It's important to balance interests and aspirations with a realistic course load. Some social studies courses require significant time for homework and studying. It's important to balance social studies courses with other subjects and extracurricular activities.

MARYLAND COMPREHENSIVE ASSESSMENT PROGRAM (MCAP)

The American Government MCAP is a standardized test administered to high school students in Maryland. The test is taken at the conclusion of the American Government course, typically in 10th grade. *A student's score on the MCAP will account for 20% of their overall grade in the course.* The test is designed to assess students' mastery of the Maryland College and Career-Ready Standards for social studies and to ensure that they are prepared for college and careers in social studies-related fields.

WHAT ARE THE BENEFITS OF TAKING SOCIAL STUDIES CLASSES IN MY SENIOR YEAR?

Deciding whether to take a fourth social studies course in your senior year of high school depends on several factors. If you are planning to pursue a career in history, politics, economics, or other social studies subjects, taking an additional social studies course could be beneficial. Even if you are planning to major in a field unrelated to social studies, many college programs require a certain number of credits in social studies as part of their general education requirements. Taking an advanced course in high school might make these college courses easier or even allow you to test out of them.

LEARN WHICH PATH IS RIGHT FOR YOU
& READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-socialstudies

SOCIAL STUDIES PATHWAYS

3 CREDITS REQUIRED

	9TH GRADE	10TH GRADE	11TH GRADE	12TH GRADE
	MUST CHOOSE 1 CLASS	MUST CHOOSE 1 CLASS	MUST CHOOSE 1 CLASS	
PATHWAY 1	U.S. Studies II	Local, State & National Government	World History	*see electives below*
PATHWAY 2	Honors U.S. Studies II AP U.S. History	Honors Local, State & National Government AP U.S. Government & Politics	Honors World History AP World History: Modern World History since 1500	*see electives below*
ELECTIVES		AP Human Geography Honors Human Geography	Advanced Research Seminar AP Comparative Government & Politics AP Economics Honors Economics AP European History AP U.S. Government & Politics AP Human Geography Honors Human Geography AP U.S. History World History since 1500 Honors Civil War Honors Media Literacy Honors Philosophy AP Psychology Honors Psychology Psychology Honors Sociology Sociology Taking Informed Action	

Dual Enrollment

Did you know ___?___

Social studies courses equip students with critical thinking, research, and analytical skills that are highly valued in various professions. Graduates with a background in social studies often find successful careers in law, journalism, public policy, international relations, urban planning, social work, and even in emerging fields like data analysis and market research, demonstrating the broad applicability of the skills gained from social studies education.

WORLD LANGUAGES

GRADUATION REQUIREMENTS: World language credits are not required to earn a Maryland High School Diploma. However, the University System of Maryland completer program requires students to study the same language for at least two years.

WORLD LANGUAGE COURSES

WCPS offers a variety of world language courses that students can choose from, including American Sign Language, French, German, Japanese, Latin, and Spanish. Students can select the language they are interested in and take courses in levels 1, 2, 3, 4, Advanced Placement (AP®), and International Baccalaureate® (IB).

Communicating with respect and cultural understanding in multiple languages is essential to global competence. This competence is developed and demonstrated by investigating the world, recognizing and weighing perspectives, acquiring and applying disciplinary and interdisciplinary knowledge, communicating ideas, and taking action. Global competence is fundamental to the experience of learning languages, whether in classrooms, through virtual connections, or via everyday experiences. Language learning contributes an essential means to communicate and interact in multilingual communities at home and worldwide. This interaction develops perspectives of a culture's products, practices, and values, such as inter-cultural experiences.

DUAL CREDIT, COLLEGE BOARD® ADVANCED PLACEMENT (AP®) COURSES, AND INTERNATIONAL BACCALAUREATE® (IB)

Dual credit courses allow high school students to earn Hagerstown Community College (HCC) credit while still in high school. All level 4 world language courses enable students to earn up to six (6) college credits from HCC. After completing level 4 courses, students can take AP® or IB world language courses. By taking advanced-level courses, students may earn additional credits if they pass the AP® or IB assessment.

MARYLAND SEAL OF BILITERACY

The Maryland Seal of Biliteracy is a graduation award given by the Maryland State Department of Education to high school seniors who have demonstrated proficiency in two or more languages. To earn the award, students must meet language proficiency standards in English and at least one other language. The Seal of Biliteracy recognizes the value of language diversity, promotes bilingualism and bi-literacy, and prepares students for the global community and workforce. The award is a valuable asset for college applications and future career opportunities.

HOW MANY WORLD LANGUAGE COURSES SHOULD A STUDENT TAKE?

The number of levels of a world language a student should take in high school can vary depending on several factors. Consider these points when deciding:

- **College Admissions Requirements:** Many colleges and universities have specific language requirements. Typically, they prefer at least two years of the same language, but more competitive institutions often favor three or four years. Research the requirements of the colleges in which you are interested.
- **Career Goals:** If you are considering a career in international business, diplomacy, global non-profits, translation, or any field with an international component, proficiency in a world language can be a significant advantage. Fluency in a second language can be a considerable asset in many areas, providing long-term career benefits.
- **Personal Interest and Aptitude:** If you have a strong interest in a particular language or culture or find language learning enjoyable and fulfilling, you may take additional levels to achieve greater fluency.
- **Future Travel or Study Abroad Plans:** If you have plans to travel, study, or work abroad in a country where the language is spoken, additional language study can be incredibly beneficial. Studying a language in-depth often involves exploring its associated culture, which can broaden your global awareness and understanding.

WANT TO LEARN MORE?
FOR MORE INFORMATION, VISIT:

wcpsmd.com/ps-worldlang

Which World Language is right for me ?

Different languages offer unique opportunities for communication and cultural exchange.

HERE ARE INSIGHTS INTO EACH LANGUAGE WCPS OFFERS:

- AMERICAN SIGN LANGUAGE: Learning American Sign Language (ASL) is more than communication for people who are deaf or hard of hearing—it's a vital life skill. With 36 million deaf or hard-of-hearing individuals in the U.S.. ASL proficiency expands your personal and professional connections by 17%. Proficiency benefits public-facing roles, from healthcare to social services, fostering inclusivity and breaking communication barriers. ASL fluency opens doors to rewarding careers and increases earning potential.
- FRENCH: French might be your language if you are interested in fashion, art, cooking, ballet, and more. More than 300 million people speak French on five continents, and French is the third most spoken language in Washington County and Maryland after English and Spanish. French is a working and official language of the United Nations, the European Union, UNESCO, NATO, the International Olympic Committee, the International Red Cross, and international courts.
- GERMAN: German is more than Oktoberfest, BMWs, machinery, and sausages. German is the second most commonly used scientific language globally and ranks among the top ten most widely spoken languages worldwide. Germany is a global leader in engineering and has produced numerous Nobel Prize laureates. A German, Jonathan Hager, founded Hagerstown, which maintains a sister city relationship with Wesel, Germany. The city of Wesel even has a street named Hagerstown.
- JAPANESE: Whether you are a fan of manga, anime, or Japanese movies, or you want to learn more about the culture that gave us karaoke, karate, and Hello Kitty, studying Japanese is a great option. Knowing Japanese can open up business opportunities since Japan has the world's third largest economy after the United States and China. Moreover, studying Japanese can be a gateway to other Asian languages, as Japanese uses the kanji writing system derived from the Chinese system of ideographs.
- LATIN: Unlock the secrets of language and history by taking Latin. Sure, it's an ancient language, but it's like the superhero of languages – the origin story for English and others like Spanish and French. By studying Latin, you are diving into epic tales of ancient Rome and gaining access to timeless works of literature, philosophy, and law, fostering critical thinking and analytical skills. Plus, Latin is like the secret decoder ring for scientific, medical, and legal terminology, making you a language superhero in the modern world.
- SPANISH: Imagine having a skill that allows you to connect with over 20 countries and 490 million native speakers across four continents. Learning Spanish is more than just acquiring a language; it can be your passport to a world of connections and opportunities. Spanish is in demand in many job markets as the second most spoken language in the United States. Learning Spanish will connect you to Hispanic culture and Spanish speakers in Washington County and beyond.

COMPREHENSIVE ARTS

WCPS recognizes the importance of the arts in a well-rounded education. In addition to the Barbara Ingram School for the Arts, WCPS has many award-winning programs in our high schools. The arts provide a unique opportunity for students to express themselves creatively, develop critical thinking skills, and learn about different cultures and perspectives. WCPS offers a variety of courses that provide students with opportunities to explore different mediums, techniques, and styles of art. Through the arts, WCPS aims to foster creativity, self-expression, and a lifelong appreciation for the arts in its students.

GRADUATION REQUIREMENTS

Students are required to earn one "fine arts" course credit to meet the requirements to earn a high school diploma. Most students meet this graduation requirement by passing Art I or a music course such as Band, Chorus, or Orchestra. If you are unsure about whether a course meets the graduation requirements, please contact your high school counselor.

ACCELERATED CREDITS

In some performance ensembles, students have the opportunity to earn an accelerated credit by completing additional activities beyond the regular course of study. Students who commit to and complete the additional activities will earn Honors credit status and weighted grading to recognize their higher levels of achievement. Interested students should speak with their teachers about the availability of this accelerated credit option.

DUAL CREDIT AND COLLEGE BOARD® ADVANCED PLACEMENT (AP®) COURSES

Dual credit courses allow high school students to earn Hagerstown Community College (HCC) credit while still in high school. These courses are taught by high school teachers who have been approved by HCC to teach the course. Advanced Placement courses follow a curriculum set by the College Board®. Students who take these courses may earn college credit if they score well on the corresponding AP exam.

WHAT SHOULD I CONSIDER WHEN SELECTING COURSES THAT SPECIALIZE IN THE COMPREHENSIVE ARTS?

- **Personal Interest and Passion:** Choose an art form that genuinely interests you, whether it's visual arts like painting and sculpture, performing arts like music and theater, or digital arts like graphic design and photography.
- **Career and Educational Goals:** If you're considering a career in the arts or plan to pursue arts in college, select courses that will build the necessary skills and portfolio.

WHY THE ARTS MATTER

- **Improve Cognitive Skills:** Involvement in arts programs offers students a range of significant benefits that extend beyond just learning to paint, play an instrument or sing. An education in the arts has been shown to improve cognitive skills such as memory, attention, and reasoning. Arts education can enhance skills that are critical to academic success, such as discipline, concentration, and time management.
- **Improves Emotional and Social Skills:** The arts can be a powerful tool for emotional expression and processing. Participating in school arts programs can help students develop empathy, emotional intelligence, and social skills, as they work together and connect with diverse groups of people.
- **Builds Confidence and Self-Esteem:** Learning to play an instrument, perform, or present artistic works can significantly boost a student's confidence. As they progress and achieve their goals, their self-esteem grows.

WANT TO LEARN MORE?
FOR MORE INFORMATION, VISIT:

wcpsmd.com/ps-thearts

PHYSICAL EDUCATION/HEALTH

WCPS offers a variety of physical education courses to provide students with opportunities to develop their physical fitness, coordination, and teamwork skills. WCPS also offers health and wellness courses that focus on topics such as nutrition, stress management, and disease prevention.

GRADUATION REQUIREMENTS

In Maryland, high school students are required to earn one (1) credit in physical education and one (1) credit in Health to earn a Maryland diploma. The Health course must be taken within a WCPS high school. There is no dual credit course offered at Hagerstown Community College that meets the requirements of Health.

OTHER IMPORTANT SCHEDULING INFORMATION:

- Most students will take the Physical Education I course in 9th grade. This course is a prerequisite for other physical education courses.
- The Health course encourages students to develop skills, attitudes, and behaviors that will enable them to make decisions that promote healthy behaviors. Topics included are: mental and emotional health; substance abuse prevention; family life and human sexuality; safety and violence prevention; healthy eating; and disease prevention and control. The course includes a financial literacy component that includes consumer decision-making, financial awareness, saving and investments, and loan and debt management. A student service learning (SSL) project is part of this course. Students must complete the SSL project to earn 15 hours.

WANT TO LEARN MORE?
FOR MORE INFORMATION, VISIT:

wcpsmd.com/ps-pehealth

Did you know ?

CAREERS IN HEALTH AND PHYSICAL EDUCATION ARE EXPERIENCING RAPID GROWTH DUE TO INCREASING AWARENESS OF HEALTH AND WELLNESS, CHANGES IN HEALTHCARE POLICY, AND AN AGING POPULATION. SOME OF THE FASTEST-GROWING CAREERS IN THIS FIELD ARE:

- **PHYSICAL THERAPISTS:** With a growing elderly population and an increased focus on rehabilitation and injury prevention, physical therapists are in high demand. This profession requires a Doctor of Physical Therapy degree.
- **OCCUPATIONAL THERAPISTS:** Similar to physical therapists, occupational therapists help patients develop, recover, improve, and maintain the skills needed for daily living and working. This career is growing due to the aging baby boomer population.
- **EXERCISE PHYSIOLOGISTS:** Specializing in the analysis of fitness to help patients recover from chronic diseases and improve cardiovascular function, exercise physiology is a rapidly expanding field.
- **HEALTH EDUCATORS & COMMUNITY HEALTH WORKERS:** As public awareness of health and wellness increases, so does the demand for health educators and community health workers. These professionals work in public health education and promotion.
- **NUTRITIONISTS & DIETITIANS:** With a heightened focus on the role of diet in health, nutritionists and dietitians are increasingly sought after for advice on eating habits to prevent and treat illnesses.

CAREER & TECHNICAL EDUCATION

Career and Technical Education (CTE) programs are a key component of the high school education system, designed to prepare students for a diverse and modern economy. WCPS offers Career and Technology Completer programs in all ten of the identified Maryland Career Clusters. Each school has a list of CTE programs. If you are interested in a program that is not offered in your school, you can apply for special permission to attend that school. Students who request special permission are required to provide their own transportation.

GRADUATION REQUIREMENTS

All students must earn one (1) credit in Foundations of Technology or one (1) credit in Foundations of Computer Science in order to earn a Maryland high school diploma. In addition, all students must have a completer as part of the Maryland graduation requirements. A CTE completer program is a three-or four-course pathway that includes a set of requirements that are designed to prepare students for a career in a particular field.

WHAT SHOULD I CONSIDER WHEN SELECTING CTE COURSES?

When selecting CTE courses in high school, students should consider several factors to ensure they make choices that align with their interests, goals, and future plans:

- **Career Interests and Goals:** Choose CTE courses that align with your career interests or fields you want to explore.
- **College and Career Readiness:** Consider how the course will prepare you for post-secondary education or direct entry into a career.
- **Industry Demand:** Research job market trends to understand which skills and careers are in demand.
- **Hands-On Experience:** Look for courses that offer practical, hands-on experience in your area of interest.
- **Certifications and Credentials:** Some CTE courses provide industry-recognized certifications that can be valuable in job markets.
- **College Credit:** Check if the CTE course offers dual enrollment or college credits.
- **Feedback from Peers and Counselors:** Talk to students who have taken the courses and seek advice from school counselors.
- **Boyd J. Michael, III Technical High School:** Some specialty CTE completer programs are exclusively located at the Boyd J. Michael, III Technical High School. If a student is interested in programs offered at that location, they must apply for entry into those programs typically during the sophomore year of high school. Most of these programs are very competitive to gain entry to because they are open to all applicants from Washington County Public Schools. It is important that a student applicant has a good attendance record, a good discipline record, and is making progress academically to ensure a competitive opportunity when applying.

Making informed decisions about CTE courses can provide a solid foundation for future educational and career paths.

YOUTH APPRENTICESHIPS

Youth apprenticeships are tailored for students focused on career pathways within CTE Career Clusters, enabling participation as early as the summer before junior year. Encompassing a minimum of 450 hours of work-based training and a year of related instruction, the program aims to bridge the gap between education and the workforce, fostering skilled labor development through education, mentor-ship, and on-the-job training. Additionally, students can earn up to four (4) high school credits for completing the program.

For more information, please refer to page 54.

WANT TO LEARN MORE?
FOR MORE INFORMATION, VISIT:

wcpsmd.com/ps-cte

CAREER & TECHNICAL EDUCATION PROGRAMS AND PATHWAYS BY HIGH SCHOOL

	BISFA	BOONSBORO	CLEAR SPRING	HANCOCK	NORTH	SMITHSBURG	SOUTH	TECH	WILLIAMSPORT
ARTS, MEDIA, & COMMUNICATIONS									
Interactive Media Production		●			●		●		●
Computer Game Development & Animation	●								
Photography & Cinematography	●								
Audiovisual Communications, Broadcast, & Sound Engineering		●			●	●	●		
ACCOUNTING & FINANCE									
Software Specialist		●	●	●			●		●
Finance & Accounting		●							
Marketing		●		●			●		●
CONSTRUCTION & DEVELOPMENT									
NCCER Carpentry		●		●		●	●	●	
Construction Design & Management		●							●
Electrical Construction								●	
Heating, Ventilation, and Air Conditioning (HVAC)					●		●		
Barr Construction Institute		●	●	●	●	●	●	●	●
CONSUMER SERVICES, HOSPITALITY, & TOURISM									
Food & Beverage Management					●		●		
Hospitality & Tourism					●				●
Culinary Arts								●	
Cosmetology								●	
ENVIRONMENTAL, AGRICULTURE & NATURAL RESOURCES									
CASE Agriculture Engineering Pathway						●			
CASE Natural Resources						●	●		
CASE Plant Science Pathway						●			
Environmental Resource Management		●							
Environmental Agriculture Science Academy (Animal Pathway)			●						
Environmental Agriculture Science Academy (Environmental Pathway)			●						
Power Mechanics		●	●						
Horticulture		●	●						
HEALTH AND BIOSCIENCES									
Academy of Biomedical Sciences *(Project Lead the Way)*								●	
Academy of Health Professions								●	
Allied Health Professions – Sports Medicine/CNA + GNA		●				●			
HUMAN RESOURCE SERVICES									
Teaching Academy of Maryland			●	●	●			●	
Criminal Justice, Law & Society								●	
Homeland Security – Emergency Preparedness		●					●		
Homeland Security – Information Technologies								●	
Fire & Rescue Academy								●	
INFORMATION TECHNOLOGY									
Computer Science		●	●	●	●	●	●		●
AI & Cloud Computing								●	
CISCO Networking Academy								●	
MANUFACTURING, ENGINEERING, & TECHNOLOGY									
Mechanical, Manufacturing, & Automation Engineering Academy								●	
Engineering Academy *(Project Lead the Way)*								●	
Aerospace/Aviation									●
TRANSPORTATION TECHNOLOGY									
Collision Repair								●	
Automotive Technology								●	
Diesel Technology								●	
Commercial Driving and Transportation									●
OTHER									
Apprenticeship Maryland		●	●	●	●	●	●	●	●
Career Research & Development		●	●	●	●	●	●		●

CTE CAREER CLUSTER

ARTS, MEDIA, AND COMMUNICATIONS

PHOTOGRAPHY AND CINEMATOGRAPHY

REQUIRED COURSES	OFFERED AT
• Intro to Photographic Concepts	BISFA
• Cinematography and Film Production	
• Advanced Photography and Cinematography	
• Photography and Cinematography Capstone	

TECHNICAL SKILLS ASSESSMENT

One of the following Adobe Creative Suite Certifications: Dreamweaver Illustrator, InDesign, Photoshop, Premiere Pro

JOB MARKET OUTLOOK

Interactive Media Designer / Web Designer / Software Engineer / Front End Developer / Multimedia Graphic Designer / Concept Artists / User Interface Designers / Web Design / Character Designer or Animator / Video Game Designer / Content Designer / Game Design / Game Design Mechanic

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Computer Science AA
- Video Game Design AA
- Digital Gaming & Interactive Media AS
- Digital Media AA
- Graphics, Multimedia & Web Design AS

University Programs

- Computer Science BS
- Game Development BS
- Digital Gaming & Interactive Media BS
- Game Design MS
- Interaction Design & Information Architecture MS
- Visual Communication Design MA
- Critical Game Design Ph.D

Technical College Programs

- Digital Arts
- Animation
- Internet Technology
- Cybersecurity
- Software Design

GAME DEVELOPMENT AND ANIMATION

REQUIRED COURSES	OFFERED AT
• Computer Design and Game Animation Development Fundamentals	BISFA
• Computer Design and Game Animation Development I	
• Computer Design and Game Animation Development II	
• Computer Design and Game Animation Development Capstone	

TECHNICAL SKILLS ASSESSMENT

One of the following Adobe Creative Suite Certifications: Dreamweaver Illustrator, InDesign, Photoshop, Premiere Pro

JOB MARKET OUTLOOK

Interactive Media Designer / Web Designer / Software Engineer / Front End Developer / Multimedia Graphic Designer / Concept Artists / User Interface Designers / Digital Content Coordinator / Video Game Programmer / Video Game Design / Associate Producer of Games with Design Skills / Multimedia Game Design

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Computer Science AA
- Video Game Design AA
- Digital Gaming & Interactive Media AS
- Digital Media AA
- Graphics, Multimedia & Web Design AS

University Programs

- Computer Science BS
- Game Development BS
- Digital Gaming & Interactive Media BS
- Game Design MS
- Interaction Design & Information Architecture MS
- Visual Communication Design MA
- Critical Game Design PhD

Technical College Programs

- Digital Arts
- Animation
- Internet Technology
- Cybersecurity
- Software Design

LEARN WHICH PATH IS RIGHT FOR YOU
& READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-artscomm

INTERACTIVE MEDIA PRODUCTION

REQUIRED COURSES	OFFERED AT
• Principles of Multimedia	BHS
• Multimedia Production	NHHS
• Advanced Interactive Multimedia Production	SHHS
	WHS
• Interactive Media Portfolio Capstone	
• Apprenticeship (OPTIONAL)	

TECHNICAL SKILLS ASSESSMENT

One of the following Adobe Creative Suite Certifications: Dreamweaver Illustrator, InDesign, Photoshop, Premiere Pro

JOB MARKET OUTLOOK

Interactive Media Designer / Web Designer / Software Engineer / Front End Developer / Multimedia Graphic Designer / Concept Artists / User Interface Designers / Social Media Specialist / Video Editor / Web Design / Animator / Digital Advertising Specialist / Digital Marketer / Video Game Designers

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Multimedia Arts AA
- Digital Media Production AA/AS/AAS
- Digital Gaming & Interactive Media AS/AAS
- Digital Media Production AAS
- Digital Media AA

University Programs

- Digital Media Production BS, Communication BS
- Informatics & Interactive Media Production BA
- Digital Gaming & Interactive Media BS
- Digital Media Programs MA/MS
- Film & Digital Media PhD

Technical College Programs

- Digital Arts
- Animation
- Internet Technology
- Cybersecurity
- Software Design

AUDIOVISUAL COMMUNICATIONS AND BROADCAST TECHNOLOGIES

REQUIRED COURSES	OFFERED AT
• Principles of Arts, Media and Communication-Broadcasting	BHS
	NHHS
• Audiovisual Communication and Production Level 1	SHHS
	SHS
• Audiovisual Communications and Production Level 2	
• Audiovisual Communication and Broadcast Technologies Capstone	

TECHNICAL SKILLS ASSESSMENT

One of the following Adobe Creative Suite Certifications: Dreamweaver Illustrator, InDesign, Photoshop, Premiere Pro

JOB MARKET OUTLOOK

Social Media Coordinator / Marketing Representative / Advertising Sales Representative / Digital Content Coordinator / Camera Operator / Broadcast Technician / Sound Mixer / Social Media Specialist / Video Editor / Digital Advertising Specialist / Digital Marketer / Field Technician / Recording Engineer

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Multimedia Arts AA
- Digital Media Production AA/AS/AAS
- Digital Gaming & Interactive Media AS/AAS
- Digital Media Production AAS
- Digital Media AA

University Programs

- Digital Media Production BS, Communication BS
- Informatics & Interactive Media Production BA
- Digital Gaming & Interactive Media BS
- Digital Media Programs MA/MS
- Film & Digital Media PhD

Technical College Programs

- Digital Arts
- Animation
- Internet Technology
- Cybersecurity
- Software Design

CTE CAREER CLUSTER

BUSINESS, MANAGEMENT, AND FINANCE

BUSINESS MANAGEMENT

REQUIRED COURSES	OFFERED AT
• Principles of Business Administration and Management	HMSHS
• Principles of Accounting and Finance	
• Advanced Business Management	
• Business Management Capstone	

TECHNICAL SKILLS ASSESSMENT

A*S*K Business Institute Certification Assessment in Finance or CLEP® Finance and Accounting or AP® Micro or Macroeconomics or College Credit (Dual Enrollment or Articulation)

JOB MARKET OUTLOOK

Administrative Assistant / Relationship Banker / Assistant Store Manager / Auditing Clerk / Payroll Clerk / Accounts Payable or Accounts Receivable Administrator / Information Security Analyst / Operations Research Analyst / Market Research Analyst / Financial Manager/Analyst / Accountant/Auditor / Budget Analyst / Management Accountant

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Business Administration AS
- Accounting Technology AS
- Advertising AS
- Finance AS

University Programs

- Administration BS
- Accounting BS
- Business Management in Accounting BS/MBA
- BA/PhD Business Administration

Technical College Programs

- Business Management
- Business Technology
- Entrepreneurship
- Accounting Assistant
- Banking & Financial Services
- Accounting & Financial Services

FINANCE AND ACCOUNTING

REQUIRED COURSES	OFFERED AT
• Principles of Business Administration and Management	BHS HMSHS
• Principles of Accounting and Finance	
• Honors Accounting and Finance II	
• Accounting and Finance III – Capstone	
• Apprenticeship (OPTIONAL)	

TECHNICAL SKILLS ASSESSMENT

A*S*K Business Institute Certification Assessment in Finance or CLEP® Finance and Accounting or AP® Micro or Macroeconomics or College Credit (Dual Enrollment or Articulation)

JOB MARKET OUTLOOK

Administrative Assistant / Relationship Banker / Assistant Store Manager / Auditing Clerk / Payroll Clerk / Accounts Payable or Accounts Receivable Administrator / Information Security Analyst / Operations Research Analyst / Market Research Analyst / Financial Manager/Analyst / Accountant/Auditor / Budget Analyst / Management Accountant

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Business Administration AS
- Accounting Technology AS
- Advertising AS
- Finance AS

University Programs

- Administration BS
- Accounting BS
- Business Management in Accounting BS/MBA
- BA/PhD Business Administration

Technical College Programs

- Business Management
- Business Technology
- Entrepreneurship
- Accounting Assistant
- Banking & Financial Services
- Accounting & Financial Services

LEARN WHICH PATH IS RIGHT FOR YOU
& READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-busmgt

MARKETING

REQUIRED COURSES	OFFERED AT
• Principles of Business Administration and Management	BHS, HMSHS, SHHS, WHS
• Principles of Accounting and Finance	
• Marketing: An Introduction	
• Advanced Management Theory	
• Apprenticeship (OPTIONAL)	

Dual Enrollment

TECHNICAL SKILLS ASSESSMENT
College Credit

JOB MARKET OUTLOOK
Accounting Assistant / Operations Research Analyst / Market Research Analyst / Fundraiser / Management Analyst / Marketing / Sales & Service / Advertising / Social Media Management / Administrative Assistant / Relationship Banker / Customer Service Associate / Assistant Store Manager / Sales Support Specialist / Social Media Specialist / Marketing Associate / Digital Marketer

COLLEGE AND CAREER PATHWAYS
Community College Programs
- Marketing AS/AA
- Digital Marketing AS
- Marketing & Sales AS
- Advertising AS
- Internet Marketing AS

University Programs
- Administration BS
- Human Resource Management BS
- Marketing BS
- Business Management BS/MBA
- Marketing BS/MBA
- PhD Business Administration

Technical College Programs
- Entrepreneurship
- Marketing Management
- Digital Marketing
- Marketing & Social Media Management

SOFTWARE SPECIALIST

REQUIRED COURSES	OFFERED AT
• Principles of Business Administration and Management	BHS, CSHS, HMSHS, SHHS, WHS
• Principles of Accounting and Finance	
• Office Systems – Excel	
• Office Systems – Word	

TECHNICAL SKILLS ASSESSMENT
Pass both Microsoft Word and Excel IRC tests

JOB MARKET OUTLOOK
Accounting Assistant / Operations Research Analyst / Market Research Analyst / Financial Manager / Fundraiser / Management Analyst / Information Security Analyst / Operations Research Analyst / Market Research Analyst / Financial Manager / Accountant/Auditor

COLLEGE AND CAREER PATHWAYS
Community College Programs
- Business Administration AS
- Accounting Technology AS
- Advertising AS
- Finance AS

University Programs
- Administration BS
- Human Resource Management BS
- Business Management BS/MBA
- PhD Business Administration

Technical College Programs
- Business Management
- Business Technology
- Entrepreneurship
- Accounting Assistant

CTE CAREER CLUSTER

CONSTRUCTION AND DEVELOPMENT

CARPENTRY

REQUIRED COURSES	OFFERED AT
• Foundations of Building and Construction Technology	BHS, HMSHS
• Carpentry 1	SHS
• Carpentry 2	SHHS
• Carpentry Capstone	
• Apprenticeship (OPTIONAL)	

TECHNICAL SKILLS ASSESSMENT

NCCER Core Intro Craft Skill, Level 1 Assessment 8th Edition complete testing 1-12

JOB MARKET OUTLOOK

Contractor / Maintenance / Technician / Business Owner / Project Manager / Construction Foreman/ Superintendent / Project Site Manager

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Construction Management AAS
- Construction & Building Science Technology AS
- Business Management AS
- Construction Management Design & Management AAS

University Programs

- Construction Management/Engineering BS
- Civil Engineering, Project Management, BS/MS/PhD

Technical College Programs

- Construction Management
- Business Management
- Drafting
- Project Design
- Construction
- Carpentry
- Wood Manufacturing Technology
- Cabinetmaking

CONSTRUCTION AND BUILDING TRADES

REQUIRED COURSES	OFFERED AT
• Introduction to Construction Design and Management and Construction Safety	TECH
• Civil Architecture Site Development and Introduction to Active Building Sites	
• Construction Plan Reading and Development and Principles of Construction Design	
• Advanced Design and 3D Modeling and Advanced Construction Management	
• Apprenticeship (OPTIONAL)	

TECHNICAL SKILLS ASSESSMENT

NCCER Core Intro Craft 6th Edition 1-10 and Skill Level 1 Assessment 8th Edition complete testing 1-12

JOB MARKET OUTLOOK

Contractor / Maintenance / Technician / Business Owner / Project Manager / Construction Foreman/ Superintendent / Project Site Manager

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Construction Management AAS
- Construction & Building Science Technology AS
- Business Management AS
- Construction Management Design & Management AAS

University Programs

- Construction Management/Engineering BS
- Civil Engineering
- Project Management BS/MS/PhD

Technical College Programs

- Construction Management
- Business Management
- Drafting
- Project Design

LEARN WHICH PATH IS RIGHT FOR YOU
& READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-constdvlp

CONSTRUCTION DESIGN AND MANAGEMENT

REQUIRED COURSES	OFFERED AT
• Introduction to Construction Design	BHS
• Principles of Construction Design	WHS
• Advanced Design and 3D Modeling	
• Advanced Construction Management	

TECHNICAL SKILLS ASSESSMENT

Autodesk AutoCAD Certification or
Autodesk Revit Certification

JOB MARKET OUTLOOK

Contractor / Maintenance / Technician / Business Owner / Project Manager / Construction Foreman / Construction Foreman/Superintendent / Project Site Manager

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Construction Management AAS
- Construction & Building Science Technology AS
- Business Management AS
- Construction Management Design & Management AAS

University Programs

- Construction Management/Engineering BS
- Civil Engineering, Project Management BS/MS/PhD

Technical College Programs

- Construction Management
- Business Management
- Drafting
- Project Design

ELECTRICAL CONSTRUCTION

REQUIRED COURSES	OFFERED AT
• Foundations of Building and Construction	TECH
• Electrical I: Safety Training / Electrical Theory	
• Electrical II: Device Boxes, Raceways, and Conduit	
• Work-based Learning Experience	

TECHNICAL SKILLS ASSESSMENT

NCCER Core Intro Craft 6th Edition 1-10 and Skill Level 1 Assessment 8th Edition complete testing 1-12

JOB MARKET OUTLOOK

Electrician Helper / Apprentice / Journeyman / Master Electrician / Electrical Contractor / Maintenance / Technician / Business Owner

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Electrical Engineer ASE/AS
- Electrical Trades Technology ETT
- Business Management AS

University Programs

- Electrical Engineer BS
- Electrical Engineering & Computer Science
- Electrical Engineering BS/MS/PhD

Technical College Programs

- Electrical, Business Management

CTE CAREER CLUSTER

CONSUMER SERVICE, HOSPITALITY, AND TOURISM

COSMETOLOGY

REQUIRED COURSES	OFFERED AT
• Introduction to Cosmetology	TECH
• Cosmetology - Theory & Introduction	
• Salon Environment/Practicum	

TECHNICAL SKILLS ASSESSMENT

Cosmetology License

JOB MARKET OUTLOOK

Hair Stylist / Nail Technician / Barber / Estheticians

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Cosmetology AS/AAS
- Makeup/Hair Artist AS

University Programs

- Business Management BAS
- Business Administration BAS

Technical College Programs

- Cosmetology

CULINARY

REQUIRED COURSES	OFFERED AT
• Kitchen Basics and Fundamentals of Baking	TECH
• Culinary Basics and Servsafe Sanitation Certification	
• Culinary Application, Baking and Pastry	
• Culinary Application, Culinary Management	

TECHNICAL SKILLS ASSESSMENT

Certified Fundamentals Cook (CFC), Certified Fundamentals Pastry Cook (CFPC), ProStart, ServSafe, National Restaurant Manager

JOB MARKET OUTLOOK

Restaurant Cook / Short Order Cook / Utility Cook / Line Cook / Chef / Restaurant Manager / Baker / Pastry Chef

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Culinary Management AS
- Culinary Management AAS
- Baking & Pastry Management AS/AAS
- Culinary Arts AS/AAS

University Programs

- Culinary/Chef BS
- Food Service Management BS
- Food Science BS/MBA
- Culinary Nutrition BA
- Baking & Pastry Arts BA
- Hotel & Restaurant Management BA

Technical College Programs

- Commercial Foods & Culinary Arts

LEARN WHICH PATH IS RIGHT FOR YOU
& READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-tourism

FOOD AND BEVERAGE MANAGEMENT

REQUIRED COURSES	OFFERED AT
• Becoming a Food Service Professional Level I	NHHS, SHHS
• Becoming a Food Service Professional Level II	
• Practical Experience as a Food Service Professional	
• Apprenticeship (OPTIONAL)	

TECHNICAL SKILLS ASSESSMENT

National ProStart Certificate of Achievement Level 1 and Level 2 end of course exams and complete 400 hours of work based learning

JOB MARKET OUTLOOK

Restaurant Cook / Short Order Cook / Utility Cook / Line Cook / Chef / Restaurant Manager / Baker / Pastry Chef

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Culinary Management AS/AAS
- Food & Beverage Management AS/AAS
- Baking & Pastry Management AS/AAS
- Culinary Arts AS/AAS

University Programs

- Hospitality & Tourism Management BS
- Food Service Management BS/MBA
- Restaurant Management BS
- Food & Beverage Operations BS/MSC

Technical College Programs

- Commercial Foods & Culinary Arts

HOSPITALITY AND TOURISM

REQUIRED COURSES	OFFERED AT
• Principles of Hospitality Tourism and Marketing	NHHS, WHS
• Exploration of Recreation, Amusements and Attractions	
• Hospitality and Tourism Management	
• Hospitality and Tourism Internship	
• Apprenticeship (OPTIONAL)	

TECHNICAL SKILLS ASSESSMENT

Year 1 and Year 2 Certified Hospitality and Tourism Management Professional and complete 100 hours of work-based learning

JOB MARKET OUTLOOK

Hospitality Manager / Restaurant Owner / Marketing / Travel Agent / Chef / Event Manager / Entrepreneur / Academia / Country Club Manager / Revenue Manager

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Culinary Management AS
- Culinary Management AAS
- Tourism & Hospitality AS & AAS
- Culinary Arts CCC

University Programs

- Hospitality & Tourism Management BS
- Hospitality & Tourism Management MBA
- Master of Business Administration MBA

CTE CAREER CLUSTER

ENVIRONMENTAL, AGRICULTURE AND NATURAL RESOURCES

CASE AGRICULTURE ENGINEERING

REQUIRED COURSES	OFFERED AT
• Intro to Agriculture, Food, and Natural Resources	SHS
• Agriculture and Power Technology	
• Mechanical Systems and Agriculture	
• Agricultural Business, Research, and Development	

TECHNICAL SKILLS ASSESSMENT

Pass course, take assessment, have a 3.0 GPA in CASE program which makes students eligible to receive college credit

JOB MARKET OUTLOOK

Agriculture Equipment Technician / Diesel Technician / Construction Equipment Technician / Parts Manager / Shop Manager

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Agricultural Technology AS
- Agricultural Systems Technology AAS
- Sustainable Agriculture AAS
- Diesel Technology AAS

University Programs

- Mechanical Engineering
- Agricultural Power Systems
- Agricultural Systems Mgmt
- Biosystems
- Agricultural Robotics
- Precision Agriculture BS/MS/PhD

Technical College Programs

- Agricultural Power & Equipment Technician
- Electrical/Electronics
- Hydraulics
- Diagnostics
- Diesel Technology

CASE NATURAL RESOURCES

REQUIRED COURSES	OFFERED AT
• Intro to Agriculture, Food, and Natural Resources	SHS SHHS
• Natural Resources and Ecology	
• Environmental Science Issues	
• Agricultural Business, Research, and Development	

TECHNICAL SKILLS ASSESSMENT

Pass course, take assessment, have a 3.0 GPA in CASE program which makes students eligible to receive college credit

JOB MARKET OUTLOOK

Forestry / Natural Resources / Biology Technician / Sustainable Agriculture / Environmental Stewardship / Environmental Science & Technology BS/MS/PhD

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Parks & Recreation
- Water Quality Monitoring
- Wildlife Habitat Management
- Fisheries Management
- Wetlands Management
- Forestry

University Programs

- Forestry, Natural Resources
- Biology Technician
- Sustainable Agriculture
- Environmental Stewardship
- Environmental Science & Technology BS/MS/PhD

Technical College Programs

- Wastewater Management
- Forestry
- Wildlife Management
- Natural Resources Conservation
- Animal Breeder
- Research Assistant

LEARN WHICH PATH IS RIGHT FOR YOU
& READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-agriculture

CASE PLANT SCIENCE

REQUIRED COURSES	OFFERED AT
• Intro to Agriculture, Food, and Natural Resources	SHS
• Principles of Agriculture Science–Plant Science	
• Animal & Plant Biotechnology	
• Agricultural Business, Research, and Development	

TECHNICAL SKILLS ASSESSMENT

Pass course, take assessment, have a 3.0 GPA in CASE program which makes students eligible to receive college credit

JOB MARKET OUTLOOK

Agriculture Education / Agriculture Equipment Technician / Diesel Technician / Construction Equipment Technician / Parts Manager / Shop Manager / Foreman

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Agricultural Technology AS
- Agricultural Systems Technology AAS
- Sustainable Agriculture AAS
- Diesel Technology AAS

University Programs

- Mechanical Engineering
- Agricultural Power Systems
- Agricultural Systems Management
- Biosystems
- Agricultural Robotics
- Precision Agriculture BS/MS/PhD

Technical College Programs

- Agricultural Power & Equipment Technician
- Electrical/Electronics
- Hydraulics
- Diagnostics
- Diesel Technology

ANIMAL SCIENCE ACADEMY

REQUIRED COURSES	OFFERED AT
• Foundations of Environmental Agriculture Science	CSHS
• Production Companion Animal	
• Veterinary Technology	
• Biotechnology (ELECTIVE)	
• Apprenticeship (OPTIONAL)	

JOB MARKET OUTLOOK

Veterinary Medicine / Neuroscience / Immunology / Parasitology / Toxicology / Research and Laboratory / Animal Nutritionist / Animal Scientist / Animal Care Supervisor / Horse Farm Manager / Animal Breeder / Kennel Manager / Show Animal Handler / Vet Assistant / Research Assistant

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Veterinary Technician AAS
- Veterinary Medicine AS/AAS
- Pre-Veterinary Medicine AS
- Veterinary Technology AS

University Programs

- Veterinary and Biomedical Science
- Veterinary Technician
- Veterinary Medicine
- Biotechnology
- Zoologist BS/MS/PhD

Technical College Programs

- Veterinary Technician
- Animal Breeder
- Research Assistant
- Certified Groomer/Stylist
- Vet Assistant

CTE CAREER CLUSTER

ENVIRONMENTAL, AGRICULTURE AND NATURAL RESOURCES

ENVIRONMENTAL AGRICULTURAL SCIENCE ACADEMY - ENVIRONMENTAL COMPLETER

REQUIRED COURSES	OFFERED AT
• Foundations of Environmental Agriculture Science	CSHS
• Aquatics and Wildlife	
• Forestry, Soils, and the Environment	
• Apprenticeship (OPTIONAL)	

JOB MARKET OUTLOOK

Agriculture Education / Agriculture Equipment Technician / Diesel Technician / Construction Equipment Technician / Parts Manager / Shop Manager / Foreman

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Natural Resources & Wildlife Technology AS
- Natural Resource Technician/Management AS

University Programs

- Forestry
- Natural Resources
- Biology Technician
- Sustainable Agriculture
- Environmental Stewardship
- Environmental Science & Technology BS/MS/PhD

Technical College Programs

- Wastewater Management
- Forestry
- Wildlife Management
- Natural Resources Conservation
- Animal Breeder
- Research Assistant

HORTICULTURE

REQUIRED COURSES	OFFERED AT
• Agriculture Science	BHS
• Horticulture Science	CSHS
• Greenhouse	
• Nursery Landscape/Turf Management (ELECTIVE)	
• Advanced Floral Design (ELECTIVE)	

TECHNICAL SKILLS ASSESSMENT

Certified Professional Horticulturalist CPH or Spatial Technology and Remote Sensing STARS

JOB MARKET OUTLOOK

Horticulturalist / Landscape Design / Golf Course & Turf Management / Greenhouse Manager Owner / Landscape Engineer / Hydrologist / Greenhouse Engineer / Landscape Design & Construction / Landscape Contractor / Floral Design / Garden Center Employee / Interiorscape Designer / Product Manager / Lawn Care Specialist

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Horticulture AS
- Ornamentals & Landscape Technology AS
- Landscape Design AS
- Sustainable Agriculture AAS

University Programs

- Horticulture BS
- Environmental Horticulture: Nursery & Landscape
- Turf, Golf Course Management
- Landscape Design
- Gardens & Urban Environments BS/MS/PhD

Technical College Programs

- Landscape & Greenhouse
- Horticulture Technician
- Greenhouse Operations
- Arboriculture
- Landscape Design & Construction

LEARN WHICH PATH IS RIGHT FOR YOU
& READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-agriculture

ENVIRONMENTAL RESOURCE MANAGEMENT

REQUIRED COURSES	OFFERED AT
• Agriculture Science	BHS
• Fish/Wildlife	
• Forestry / Soils	
• Sustainable Agriculture Capstone	

JOB MARKET OUTLOOK

Horticulturalist / Landscape Design / Golf Course & Turf Management / Greenhouse Manager Owner / Landscape Engineer / Hydrologist / Greenhouse Engineer / Landscape Design & Construction / Landscape Contractor / Floral Design / Garden Center Employee / Interiorscape Designer / Product Manager / Lawn Care Specialist

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Horticulture AS
- Ornamentals & Landscape Technology AS
- Landscape Design AS Sustainable Agriculture AAS

University Programs

- Horticulture BS
- Environmental Horticulture: Nursery & Landscape
- Turf, Golf Course Management
- Landscape Design
- Gardens & Urban Environments BS/MS/PhD

Technical College Programs

- Landscape & Greenhouse
- Horticulture Technician
- Greenhouse Operations
- Arboriculture
- Landscape Design & Construction

POWER MECHANICS

REQUIRED COURSES	OFFERED AT
• Agriculture Science	BHS
• Power Mechanics 1	CSHS
• Power Mechanics 2	
• Power Mechanics Capstone (OPTIONAL)	
• Apprenticeship (OPTIONAL)	

TECHNICAL SKILLS ASSESSMENT

EETC Principals of Small Engine Technology

JOB MARKET OUTLOOK

Agriculture Education / Agriculture Equipment Technician / Diesel Technician / Construction Equipment Technician / Parts Manager / Shop Manager / Foreman

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Agricultural Technology AS
- Agricultural Systems Technology AAS
- Sustainable Agriculture AAS
- Diesel Technology AAS

University Programs

- Biological Engineering
- Agricultural Power Systems
- Agricultural Systems Management
- Biosystems
- Agricultural Robotics
- Precision Agriculture BS/MS/PhD

Technical College Programs

- Agricultural Power & Equipment Technician
- Electrical/Electronics
- Hydraulics
- Diagnostics
- Diesel Technology

CTE CAREER CLUSTER

HEALTH AND BIOSCIENCES

BIOMEDICAL SCIENCE

REQUIRED COURSES	OFFERED AT
• Principles of Biomedical Science	TECH
• Human Body Systems	
• Medical Interventions	
• Biomedical Innovation	
• Principles of Biology (ELECTIVE)	

Dual Enrollment

TECHNICAL SKILLS ASSESSMENT

Biotechnician Assistant Credentialing Exam (BACE Exam)

JOB MARKET OUTLOOK

Diploma in Practical Nursing / Physical Therapist Assistant / Occupational Therapy Assistant / Dental Assistant / Radiology Technician / Human Anatomy & Physiology / Genetics / Biochemistry / Microbiology / Nutrition / Kinesiology / Medical Doctor

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Possibilities include AAS/AS in the medical field

University Programs

- Possibilities include BS/MS/PhD in the medical field

Technical College Programs

- Possibilities include many non-degree programs in a medical-related field of study

ACADEMY OF HEALTH PROFESSIONS CNA

REQUIRED COURSES	OFFERED AT
• Foundations in Medicine and Health Science	TECH
• Structure and Function of the Human Body	
• Certified Nursing Assistant	
• Certified Clinical Medical Assistant	

Dual Enrollment

TECHNICAL SKILLS ASSESSMENT

Certified Nursing Assistant (CNA)

JOB MARKET OUTLOOK

Certified Nursing Assistant / Patient Care Tech / Orthopedics / CAN/CGA Nursing Assistant / Licensed Practical Nurse (LPN) / Consultant / Clinical Research Specialist / Educator / Occupational Health / PhD in a Medical Field

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Possibilities include AAS/AS in the medical field

University Programs

- Possibilities include BS/MS/PhD in the medical field

Technical College Programs

- Possibilities include many non-degree programs in a medical-related field of study

LEARN WHICH PATH IS RIGHT FOR YOU & READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-healthbio

ACADEMY OF HEALTH PROFESSIONS SPORTS MEDICINE

REQUIRED COURSES	OFFERED AT
• Foundations of Sports Medicine	BHS
• Structure and Function of the Human Body	SHS
• Care and Prevention of Athletic Injuries	
• Allied Health Internship Apprenticeship	
• Certified Nursing Assistant	

Dual Enrollment

TECHNICAL SKILLS ASSESSMENT

College Credit/Dual Enrollment

JOB MARKET OUTLOOK

Sports Medicine Aide / Athletic Trainer Assistant / Fitness Trainers / Massage Therapists / Physical Therapist Aides / Orthopedic Surgeon / Medical Physician / Kinesiotherapist/Exercise Physiologist / Orthopedic or Sports Medicine Nurse / Sports Psychologist / Athletic Trainer

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Possibilities include AAS/AS in the medical field

University Programs

- Possibilities include BS/MS/PhD in the medical field

Technical College Programs

- Possibilities include many non-degree programs in a medical-related field of study

set HEALTHY goals

CTE CAREER CLUSTER

HUMAN RESOURCE SERVICES

CRIMINAL JUSTICE, LAW & SOCIETY

REQUIRED COURSES	OFFERED AT
• Introduction to Criminal Justice	TECH
• Corrections as an Introduction	
• Physical Fitness for First Responders I	
• Introduction to Homeland Security	
• Criminal Investigations / Crime Scene Investigations	
• Physical Fitness for First Responders II	
• Capstone	

Dual Enrollment

TECHNICAL SKILLS ASSESSMENT

College Credit / Dual Enrollment

JOB MARKET OUTLOOK

Healthcare Security / Private Investigation / Government Industrial Security / Law Enforcement / Emergency Management

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Homeland Security AA/AS/AAS
- Criminal Justice & Law Enforcement AA/AAS
- Criminal Justice & Homeland Security AS
- Criminal Justice Corrections AS

University Programs

- Criminal Justice BA
- Criminology, Law, & Society BS
- Criminology & Criminal Justice BS/PhD
- Homeland Security BS/MS/MA/PhD

Technical College Programs

- Criminal Justice
- Law Enforcement
- Homeland Security
- Criminal Investigation

TEACHING ACADEMY OF MARYLAND

REQUIRED COURSES	OFFERED AT
• Human Growth and Development Through Adolescence EDU 114	CSHS
• Teaching as a Profession EDU 103	HMSHS
• Foundations of Curriculum and Instruction EDU 115	NHHS
• Education Academy Internship	TECH
• Educational Psychology PSY 203 (OPTIONAL)	

Dual Enrollment

TECHNICAL SKILLS ASSESSMENT

ParaPro / Praxis Core

JOB MARKET OUTLOOK

Paraprofessional / Teacher / Tutor / Substitute / Teaching Assistant

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Teacher Education AA/AAT
- Early Childhood Education AA
- Elementary/ Secondary AA
- Paraprofessional Education AA

University Programs

- Teacher Education (content focus will vary) BA/BS
- Education M.Ed. (content focus will vary)
- Education EdD (content focus will vary)

Technical College Programs

- Child Care CDA
- Paraprofessional

LEARN WHICH PATH IS RIGHT FOR YOU
& READ COURSE DESCRIPTIONS, VISIT:
wcpsmd.com/ps-hrservices

HOMELAND SECURITY – INFORMATION TECHNOLOGIES

REQUIRED COURSES	OFFERED AT
• Foundations of Homeland Security and Emergency Preparedness I	TECH
• Introduction to Cybersecurity (ELECTIVE)	
• Introduction to Geographic Information Systems	
• Advanced Geographic Information Systems and Remote Sensing	
• Physical Fitness for First Responders I (ELECTIVE)	
• Computer Forensics I (ELECTIVE)	
• Introduction to Unmanned Systems (ELECTIVE)	
• Capstone	

Dual Enrollment

TECHNICAL SKILLS ASSESSMENT
Drone 107 Commercial User Test

JOB MARKET OUTLOOK
Healthcare Security / Private Investigation / Government Industrial Security / Law Enforcement / Emergency Management / Commercial Drone Pilot

COLLEGE AND CAREER PATHWAYS
Community College Programs
- Homeland Security AA/AS/AAS
- Emergency Management & Homeland Security AA
- Criminal Justice & Homeland Security AS
- Homeland Security Management AS

University Programs
- Criminal Justice BA
- Corporate & Homeland Security BS
- Emergency Management BS
- Criminology, Law, & Justice PhD
- Homeland Security BS/MS/MA/PhD

Technical College Programs
- Homeland Security Management
- Homeland Security
- Homeland Security & Emergency Management
- Homeland Security & Emergency Preparedness

HOMELAND SECURITY – EMERGENCY PREPAREDNESS

REQUIRED COURSES	OFFERED AT
• Foundations of Homeland Security and Emergency Preparedness	BHS SHHS
• Homeland Security 1	
• Homeland Security 2 – Research Methods and Applications	
• Capstone Experience	
• Apprenticeship (OPTIONAL)	

TECHNICAL SKILLS ASSESSMENT
ESRI ArcGIS Desktop Certification

JOB MARKET OUTLOOK
Education / Law Enforcement / Law & Policy / Biodefense / Counterterrorism / Disaster Preparedness / Emergency Management / Cybersecurity / Criminal Justice

COLLEGE AND CAREER PATHWAYS
Community College Programs
- Homeland Security AA/AS/AAS
- Emergency Management & Homeland Security AA
- Criminal Justice & Homeland Security AS
- Homeland Security Management AS

University Programs
- Criminal Justice BA
- Corporate & Homeland Security BS
- Emergency Management BS
- Criminology, Law, & Justice PhD
- Homeland Security BS/MS/MA/PhD

Technical College Programs
- Homeland Security Management
- Homeland Security
- Homeland Security & Emergency Management
- Homeland Security & Emergency Preparedness

CTE CAREER CLUSTER

HUMAN RESOURCE SERVICES

FIRE AND RESCUE ACADEMY

REQUIRED COURSES	OFFERED AT
• Fire Emergency Medical Training/High School Cadet Level I	TECH
• Fire Emergency Medical Training/High School Cadet Level II	
• Fire Emergency Medical Training/High School Cadet Level III	
• Apprenticeship (OPTIONAL)	

TECHNICAL SKILLS ASSESSMENT

EMT, Firefighter 1, Firefighter 2, Truck Company Fireground Operations, Rescue Tech Site Operation, Rescue Technician-Vehicle Machinery Extraction and Hazmat Operations, EMR

JOB MARKET OUTLOOK

Police / Fire / Emergency Medical / Public Health / Emergency Management / Retail Security / Lodging Security / Law Enforcement

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Possibilities include AAS/AS in this field

University Programs

- Possibilities include BS/MS/PhD in this field

Technical College Programs

- Possibilities include many non-degree programs in related field of study

LEARN WHICH PATH IS RIGHT FOR YOU & READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-hrservices

your PATH your SUCCESS

CTE CAREER CLUSTER

INFORMATION TECHNOLOGY

LEARN WHICH PATH IS RIGHT FOR YOU & READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-infotech

ARTIFICIAL INTELLIGENCE (AI) AND CLOUD COMPUTING

REQUIRED COURSES	OFFERED AT
• Introduction to Artificial Intelligence Devices and Cloud Computing	TECH
• Implementing Artificial Intelligence Devices and Cloud-Based Technology	
• Securing Artificial Intelligence Devices and Cloud-Based Technology	
• Optimizing Artificial Intelligence Devices and Cloud-Based Technology	

TECHNICAL SKILLS ASSESSMENT

Certifications: CompTIA ITF, CompTIA A+, Cisco CCT, Cisco CCENT, Cisco CCNA RS, Cisco CCNA Security, CompTIA Security+, NDG Linux Essentials, CompTIA Linux+, Cisco CCNA Cyber Ops

JOB MARKET OUTLOOK

AI Data Analyst / Business Intelligence Developer / Network & Computer Systems Administrator / Cloud Systems Analyst / Information Security Analyst / Data Scientist

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Computer Networking & Cybersecurity AAS
- Cybersecurity & Network Engineering Technology AS
- Cybersecurity AAS
- Networking & Virtualization AAS

University Programs

- Computer Science BS
- Computer Engineering BS
- Network Management & Security BS
- IT Cybersecurity & Networking BS
- Cybersecurity PhD
- Computer Science MS/PhD

Technical College Programs

- Computer Repair
- Network Security
- Routing & Switching
- Cybersecurity

COMPUTER SCIENCE

REQUIRED COURSES	OFFERED AT
• AP® Computer Science Principles	BISFA
• AP® Computer Science A	BHS
• Robotics, Microprocessors and Microcontrollers	CSHS
• IB Computer Science (SL) (ELECTIVE)	HMSHS
• Honors Foundations of Computer Science (ELECTIVE)	NHHS
• Advanced C++ (ELECTIVE)	SHS
	SHHS

Dual Enrollment

TECHNICAL SKILLS ASSESSMENT

AP® Score of 3 or better

JOB MARKET OUTLOOK

Computer Support Specialist / Software Developer Network & Computer Systems Administrator / Computer Systems Analyst / Information Security Analyst / Database Administrator / Web Developer

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Computer Networking & Cybersecurity AAS
- Cybersecurity & Network Engineering Technology AS
- Cybersecurity AAS
- Networking & Virtualization AAS

University Programs

- Computer Science BS
- Computer Engineering BS
- Network Management & Security BS
- IT Cybersecurity & Networking BS
- Cybersecurity PhD
- Computer Science MS/PhD

Technical College Programs

- Computer Repair
- Network Security
- Routing & Switching
- Cybersecurity

CTE CAREER CLUSTER

INFORMATION TECHNOLOGY

IT NETWORKING ACADEMY CISCO COURSES

REQUIRED COURSES	OFFERED AT
• Networking I	TECH
• Internet of Things	
• UNIX/LINUX	
• Cybersecurity Essentials	

TECHNICAL SKILLS ASSESSMENT

Certifications: CompTIA ITF, CompTIA A+, Cisco CCT, Cisco CCENT, Cisco CCNA RS, Cisco CCNA Security, CompTIA Security+, NDG Linux Essentials, CompTIA Linux+, Cisco CCNA Cyber Ops

JOB MARKET OUTLOOK

Application Analyst / Applications Developer / Cybersecurity Analyst / Data Analyst / Forensic Computer Analyst / Game Designer / Games Developer / Machine Learning Engineer

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Computer Networking & Cybersecurity AAS
- Cybersecurity & Network Engineering Technology AS
- Cybersecurity AAS
- Networking & Virtualization AAS

University Programs

- Computer Science BS
- Computer Engineering BS
- Network Management & Security BS
- IT Cybersecurity & Networking BS
- Cybersecurity PhD
- Computer Science MS/PhD

Technical College Programs

- Computer Repair
- Network Security
- Routing & Switching
- Cybersecurity

LEARN WHICH PATH IS RIGHT FOR YOU & READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-infotech

TODAY'S *choices*
TOMORROW'S *triumphs*

MANUFACTURING, ENGINEERING, AND TECHNOLOGY

LEARN WHICH PATH IS RIGHT FOR YOU & READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-engineertech

AVIATION

REQUIRED COURSES — OFFERED AT

- Principles of Aviation and Aerospace — WHS
- Introduction to Flight and Aircraft Systems
- The Flying Environment and Flight Planning
- Capstone Experience–Private Pilot Knowledge Test/107 Remote Pilot Test
- Airframe Mechanics
- Aircraft Maintenance

TECHNICAL SKILLS ASSESSMENT

Private Pilot Knowledge Test/107 Remote Pilot Test

JOB MARKET OUTLOOK

Air Traffic Control / Ground Support Equipment Analyst / Flight Paramedic / Aviation Manager / Flight Test Engineer / Avionics Engineer / Aerospace Engineer / Aircraft Maintenance Technician / Avionics Technician / Aircraft Mechanic / Flight Instructor / Drone Pilot Contractor

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Community College of Baltimore–4 AAS pathways
- Hagerstown Community College–Aviation Maintenance

University Programs

- Shepherd University–Ground School
- Marshall University–Flight Training Program
- University of Maryland Eastern Shore–BS Aviation Science
- Capitol Technology University–BS in Aviation Professional Pilot

Technical College Programs

- Advanced Helicopter Concepts–Frederick
- Pittsburgh Institute of Aeronautics–Hagerstown–Aviation Maintenance

APPLIED MANUFACTURING ENGINEER

REQUIRED COURSES — OFFERED AT

- Smart Manufacturing and Quality Control — TECH
- Advanced Operations Programming
- Robotic Systems and Industry 4.0 Applications
- Data Analytics: Advanced Turning and Milling

TECHNICAL SKILLS ASSESSMENT

Quality and Practices and Measurement Exam, Manufacturing Processes (MSSC) and Production with Safety exam (MSSC) Maintenance Awareness with Safety (MSSC)

JOB MARKET OUTLOOK

Engineering Technician / Engineering Internship / Process Engineer / Maintenance Technician / Quality Engineer / Project Engineer / Mechanical Engineer / Electrical Engineer / Manufacturing Engineer

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Engineering AS
- Engineering Technology AAS
- (Variety of Pathways)

University Programs

- Engineering BS (Variety of Pathways)
- Engineering MSc (Variety of Pathways)
- Engineering PhD (Variety of Pathways)

Technical College Programs

- Mechanical Engineering
- Engineering Technology
- Computer Science Software Engineering
- Electronics Engineering

CTE CAREER CLUSTER

MANUFACTURING, ENGINEERING, AND TECHNOLOGY

PLTW ENGINEERING – AEROSPACE

REQUIRED COURSES	OFFERED AT
• Principals of Engineering	WHS
• Aerospace	
• Engineering Design and Development	

TECHNICAL SKILLS ASSESSMENT

AutoDesk Revit Certified User, AutoDesk Inventor Certified User, Certified OnShape Associate, Computer Assisted Design

JOB MARKET OUTLOOK

Engineering Technician / Engineering Internship / Process Engineer / Maintenance Technician / Quality Engineer / Project Engineer / Mechanical Engineer / Electrical Engineer / Manufacturing Engineer

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Engineering AS
- Engineering Technology AAS (variety of pathways)

University Programs

- Engineering BS (variety of pathways)
- Engineering MSc (variety of pathways)
- Engineering PhD (variety of pathways)

Technical College Programs

- Mechanical Engineering
- Engineering Technology
- Computer Science Software Engineering
- Electronics Engineering

PLTW ENGINEERING

REQUIRED COURSES	OFFERED AT
• Principals of Engineering	TECH
• Civil Engineering and Architecture or Digital Electronics	
• Engineering Design and Development	

TECHNICAL SKILLS ASSESSMENT

AutoDesk Revit Certified User, AutoDesk Inventor Certified User, Certified OnShape Associate, Computer Assisted Design

JOB MARKET OUTLOOK

Engineering Technician / Engineering Internship / Process Engineer / Maintenance Technician / Quality Engineer / Project Engineer / Mechanical Engineer / Electrical Engineer / Manufacturing Engineer

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Engineering AS
- Engineering Technology AAS (variety of pathways)

University Programs

- Engineering BS (variety of pathways)
- Engineering MSc (variety of pathways)
- Engineering PhD (variety of pathways)

Technical College Programs

- Mechanical Engineering
- Engineering Technology
- Computer Science Software Engineering
- Electronics Engineering

LEARN WHICH PATH IS RIGHT FOR YOU
& READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-engineertech

PLTW ENGINEERING – COMPUTER INTEGRATED MANUFACTURING

REQUIRED COURSES	OFFERED AT
• Principals of Engineering	TECH
• Computer Integrated Manufacturing (CIM) III	
• Engineering Design and Development	
• Digital Electronics (ELECTIVE)	

TECHNICAL SKILLS ASSESSMENT

AutoDesk Revit Certified User, AutoDesk Inventor Certified User, Certified OnShape Associate, Computer Assisted Design

JOB MARKET OUTLOOK

Engineering Technician / Engineering Internship / Process Engineer / Maintenance Technician / Quality Engineer / Project Engineer / Mechanical Engineer / Electrical Engineer / Manufacturing Engineer

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Engineering AS
- Engineering Technology AAS (variety of pathways)

University Programs

- Engineering BS (variety of pathways)
- Engineering MSc (variety of pathways)
- Engineering PhD (variety of pathways)

Technical College Programs

- Mechanical Engineering
- Engineering Technology
- Computer Science Software Engineering
- Electronics Engineering

future MAPPED *journey* STARTS

CTE CAREER CLUSTER

TRANSPORTATION TECHNOLOGY

AUTOMOTIVE TECHNOLOGY

REQUIRED COURSES — OFFERED AT

- Electrical / Electronics and HVAC — TECH
- Suspension, Steering, and Brakes
- Powertrain Engine Repair and Performance
- Automotive Technology Capstone
- Apprenticeship (OPTIONAL)

INDUSTRY RELATED CREDENTIALS

ASE Certifications: Suspension and Steering, Brakes, Electrical/Electronic Systems, Engine Performance, Engine Repair, Automatic Transmission/Transaxle, Manual Drive Train and Axles, Heating and Air Conditioning, Maintenance and Light Repair

JOB MARKET OUTLOOK

Automotive Technician / Oil & Lube Technician / Auto Repair Shop Owner / Estimator / Collision Repair Technician / Body Shop Technician / Auto Body Painting / Collision Repair Business Owner

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Automotive Technology AAS
- Automotive Technology AS
- High Performance Technology AS
- Alternative Fuels & Advanced Transportation Technology AS

University Programs

- Automotive Technology Management BS
- Automotive Technology Supervision BS
- Applied Management BS
- Automotive Technology MSc
- Mechanical Engineering MSc
- Automotive Engineering PhD

Technical College Programs

- Possibilities include many non-degree programs in related field of study

COLLISION REPAIR

REQUIRED COURSES — OFFERED AT

- Non-Structural Analysis and Damage Repair — TECH
- Painting and Refinishing
- Structural Analysis and Damage Repair
- Mechanical and Electrical Components
- Apprenticeship (OPTIONAL)

INDUSTRY RELATED CREDENTIALS

ASE Certifications, Painting and Refinishing, Structural Analysis and Damage Repair, I-CAR Platinum Certificate

JOB MARKET OUTLOOK

Auto Detailing / Parts Manager / Auto Body Technician / Collision Repair Business Owner / Estimator

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Auto Collision Repair Technology AS
- Auto Collision Technology AAS Automotive Collision & Repair AS and AAS
- Automotive Collision Repair/Painting AS

University Programs

- Collision Repair Technology BS
- Automotive Technology Supervision BS
- Applied Management BS
- Material Engineer MSc/PhD
- Mechanical Engineer MSc/PhD

Technical College Programs

- Automotive Refinishing & Collision Repair

LEARN WHICH PATH IS RIGHT FOR YOU
& READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-transportech

DIESEL TECHNOLOGY

REQUIRED COURSES	OFFERED AT
• Diesel Suspension, Steering, and Brakes	TECH
• Electrical/Electronic Systems	
• Diesel Technology and Preventative Maintenance	
• Diesel Technology Pathway	

INDUSTRY RELATED CREDENTIALS

ASE Certifications, Diesel Engines, Electrical/Electronic Systems, Brakes, Suspension, and Steering

JOB MARKET OUTLOOK

Diesel Technician Trainee / Business Owner / Parts Manager / Oil & Lube Specialist / Heavy Equipment Mechanic / Diesel Locomotive Mechanic / Fleet Mechanic / Diesel Repair / Diesel Shop Manager / Farm Equipment Mechanic / Service Manager / Diesel Engine Mechanic

COLLEGE AND CAREER PATHWAYS

Community College Programs

- Diesel Technology AS
- Diesel Technology AAS
- Light, Medium, & Heavy Duty AS & AAS
- Diesel Equipment Technology AAS

University Programs

- Diesel Technology BS
- Diesel Technology Supervision BS
- Applied Management BS
- Mechanical Engineering MSc/PhD

Technical College Programs

- Diesel Technology & Diesel Equipment Technology (Light, Medium, & Heavy Duty)

COMMERCIAL VEHICLE TRANSPORTATION

REQUIRED COURSES	OFFERED AT
• Career Readiness in Commercial Vehicle Transportation	WHS
• Commercial Vehicle Endorsement	
• Commercial Vehicle Trip Inspection	
• Introduction to Commercial Vehicle Transportation	

Dual Enrollment

INDUSTRY RELATED CREDENTIALS

Successful completion of the course will allow participants to log the required hours to obtain their class A commercial drivers' permit

JOB MARKET OUTLOOK

Long-haul Truck Driver / Local Delivery Truck Driver / Regional Truck Driver / School Bus Driver / Forklift Operator / Dispatcher / Fleet Manager / Logistics Manager / Transportation Planner

COLLEGE AND CAREER PATHWAYS

Community College Programs

- CDL training, Commercial Vehicle Operations AA
- Transportation Management AA
- Diesel Technology AA
- Logistics & Supply Chain Management AA

University Programs

- Logistics & Supply Chain BS
- Business Administration in Transportation & Logistics BBA
- Transportation Management BS
- Civil Engineering BS
- Industrial Engineering BS

Technical Center Programs

- CDL Training
- Diesel Technology Training
- Heavy Equipment Operator Training
- Mobile Equipment Maintenance Technician Training

CTE CAREER CLUSTER

CAREER RESEARCH AND DEVELOPMENT

LEARN WHICH PATH IS RIGHT FOR YOU & READ COURSE DESCRIPTIONS, VISIT:

wcpsmd.com/ps-careerdvlp

CAREER RESEARCH AND DEVELOPMENT

REQUIRED COURSES	OFFERED AT
• Career Research and Development	BHS
• Career Development Seminar	CSHS
• Work-based Learning Experience	HMSHS
	NHHS
	SHS
	SHHS
	WHS

TECHNICAL SKILLS ASSESSMENT

This is a program for 11th and 12th graders where they explore successful career planning and management, learn how to develop communication skills, critical thinking and technology, and build a portfolio.

JOB MARKET OUTLOOK

In this program,students must find a place of employment and earn a minimum of 135 hours. This may be a paid or unpaid experience, and the experience must be developed by the student, the Work-based Learning (WBL) Coordinator, and the employer.

HEATING, VENTILATION AND AIR CONDITIONING COMPLETER

REQUIRED COURSES	OFFERED AT
• NCCER Foundations of Building Construction (HVAC/Core Battery)	NHHS
• NCCER Heating, Ventilation, and Air Conditioning I (HVAC I)	
• NCCER Heating, Ventilation, and Air Conditioning II (HVAC II)	
• NCCER Heating, Ventilation, and Air Conditioning III (HVAC III)	

TECHNICAL SKILLS ASSESSMENT

NCCER Level 1

JOB MARKET OUTLOOK

This one-year program will enable students to enter apprenticeship opportunities and provide a direct pathway into employment post-graduation as an HVAC Technician.

YOU CONTROL YOUR *future*

ENGLISH LEARNER SERVICES

English Learner (EL) services are offered to students who speak a language other than English at home and need support to develop their English language proficiency. WCPS has a team of highly qualified EL teachers who work with students in a variety of settings, including English Language Development classes, push-in classes, and co-taught classes. The EL program provides services to students at all grade levels, from kindergarten to 12th grade. The goal of the EL program is to help students develop the language skills they need to succeed academically and socially in an English-speaking environment. In addition to language instruction, the EL program also provides cultural and social support to help students adjust to their new environment and feel more connected to their school community. WCPS is committed to providing high-quality EL services to all students who need them.

RESOURCES TO SUPPORT OUR EL STUDENTS

The International Welcome Center is a valuable resource for students and families who are new to the district and come from diverse cultural and linguistic backgrounds. The center provides a welcoming and supportive environment where families can receive assistance with enrollment, registration, English Learner screening, and other academic needs. The staff at the center is dedicated to helping students succeed by providing resources such as translation services, academic counseling, and cultural orientation programs. The International Welcome Center is an important asset to the district, as it helps to create a more inclusive and supportive learning environment for all students.

WANT TO LEARN MORE?
FOR MORE INFORMATION, VISIT:

wcpsmd.com/ps-elservices

YOUTH APPRENTICESHIPS

Youth Apprenticeships bring WCPS students and employers together to create skilled labor through education, mentorship, and on-the-job training, and gives students an edge in today's ever-changing job market – all while earning a salary and school credit.

WHAT SHOULD I KNOW ABOUT APPRENTICESHIPS?

Apprenticeship Maryland is a Youth Apprenticeship program for students, ages 16 and up, that is designed to lead to sustainable employment and further education based on career pathways in Manufacturing and Science, Technology, Engineering, and Mathematics (STEM) occupations or other occupations within the CTE Career Clusters.

Participating students start the program as early as the summer before their junior year and will complete at least 450 hours of work-based training under the supervision of an eligible employer and at least one year of related instruction.

The Youth Apprenticeship program is designed to bridge the gap between education and the workforce by bringing students and employers together. This program focuses on creating skilled labor through education, mentorship, and on-the-job training. It offers students valuable experience in the job market, providing them with an edge in today's competitive landscape.

BENEFITS OF YOUTH APPRENTICESHIPS

- Enter the workforce while still in high school.
- Earn a salary.
- Earn high school credit for completing the program – up to *four (4) credits*.
- Attain a CTE completer.
- Gain marketable industry skills.
- Career Discovery – Students are able to confirm that a certain industry is a good fit, saving time and money in pursuing costly higher education or technical training after high school.
- Advancement Advantage – Youth apprentices have an advantage over other candidates as they develop valuable career skills and a professional network.
- Confidence – Students gain self-assurance by working independently under the tutelage of a mentor.
- Upon meeting all the State program standards, students will receive a Maryland State Skill Certificate.

GENERAL REQUIREMENTS

- Student applicants must be juniors or seniors, age 16 years or older, and have reliable transportation.
- A student must complete the program by graduation from high school.
- One year of related instruction is required. Each posting lists the pathways of approved instruction. Students must be enrolled in a course in one of the listed pathways.
- Applicants must be students in good standing and on track to graduate with good grades and attendance.
- Students must complete *450 hours* of work-based training and one year of related classroom instruction by graduation.
- A student must submit a complete application packet to their school counselor.

CHECK OUT SOME OF OUR PLACEMENTS:

JLG, ELITE, Glessner, P.M. Goumas Inc., FitzMall, Fahrney Keedy, Ellsworth Electric, Inc., item, MERKLE, ANTRAQUIP, Meritus Health, Schmankerl Stube, HUB Labels

WANT TO LEARN MORE?
FOR MORE INFORMATION, VISIT:

wcpsmd.com/ps-apprentice

MARYLAND STATE CERTIFICATE PROGRAM

The decision to award a student with disabilities a Maryland High School Certificate of Program Completion will not be made until after the beginning of the student's last year in high school unless the student is participating in the Alternate Maryland School Assessment Program. Although participating in the Alternate Maryland School Assessment Program will not enable the student to meet Maryland's requirements to receive a diploma, it will enable the student to progress toward earning a Maryland High School Certificate of Program Completion. The Maryland High School Certificate of Program Completion is only awarded to students with disabilities who cannot meet the state's requirements for a diploma.

1. The student is enrolled in an education program for at least four years beyond grade 8 or its age equivalent, and is determined by an Individualized Education Program (IEP) team, with the agreement of the parents of the student with disabilities, to have developed appropriate skills for the individual to enter the world of work, act responsibly as a citizen, and enjoy a fulfilling life, including but not limited to:
   - Gainful employment;
   - Work activity centers;
   - Sheltered workshops; and
   - Supported employment; or
2. The student has been enrolled in an education program for four years beyond grade 8 or its age equivalent and will have reached age 21 by the end of the student's current school year *(COMAR 13A.03.02.09D).*

If a student retakes the same class they already have credit for or for a student who is participating in the Multi-State Alternative Assessment when enrolled in a class aligned with the Maryland College Career-Ready Standards:

a. Student will not receive a grade %, passing or failing marks.

b. Student will receive a narrative description of the progress made for each class they are enrolled by the assigned teacher.

(MCCRS), however, do not cover the breadth and the depth of the general education curriculum.

WANT TO LEARN MORE?
FOR MORE INFORMATION, VISIT:

wcpsmd.com/special-education

HERE ARE MY FUTURE GOALS...

-
-
-
-
-

freshman year

sophomore year

junior year

senior year

high school check list

CREDITS REQUIRED — CHECK-OFF COURSES AS COMPLETED

ENGLISH **4 CREDITS**	☐ English 9 ☐ English 10 ☐ English 11 ☐ English 12
MATHEMATICS **4 CREDITS**	☐ Algebra I ☐ Geometry I ☐ *(additional math course)* ☐ *(additional math course)*
SCIENCE **3 CREDITS**	☐ Biology ☐ *(additional science course)* ☐ *(additional science course)*
SOCIAL STUDIES **3 CREDITS**	☐ U.S. Studies II ☐ Local, State, & National Government ☐ World History
PHYSICAL EDUCATION **1 CREDIT**	☐ Physical Education I
HEALTH/ FINANCIAL LITERACY **1 CREDIT**	☐ Health WITH Financial Literacy
FINE ARTS **1 CREDIT**	☐ Fine Arts
TECHNOLOGY EDUCATION **1 CREDIT**	☐ Foundations of Technology OR Foundations of Computer Science
ELECTIVES **6 CREDITS**	☐ *(elective course)* ☐ *(elective course)* ☐ *(elective course)* ☐ *(elective course)* ☐ *(elective course)* ☐ *(elective course)*
SSL HOURS **75 HOURS**	☐ 75 hours OF Student Service Learning
STATE TESTING **PASSED**	☐ English 10 (MCAP) ☐ Life Sciences (MISA) ☐ Algebra I (MCAP) ☐ Government (MCAP)

MORE INFO, VISIT: bit.ly/24-25wcps-programstudies

WCPS
Washington County Public Schools

Building a

COMMUNITY

that inspires curiosity, creativity &

ACHIEVEMENT

10435 Downsville Pike, Hagerstown, MD 21740 | 301-766-2800 | wcpsmd.com