2026-2027

STUDENT EDUCATION PLANNING GUIDE

Cecil County Public Schools

A MESSAGE FROM THE SUPERINTENDENT

Dear Students:

The *Student Education Planning Guide* will assist you in choosing your high school course of study and planning for the future. Whether you intend to attend college or technical school, join the military, or enter the workforce, the decisions you make in choosing your classes are very important. Please carefully review the educational opportunities, course descriptions and requirements, and pertinent policies contained in this guide.

According to Lynn Linde, former president of the American Counseling Association, "Helping students identify where their passions lie is key to helping prepare them for future jobs and correlates to success in school." Research has shown that students feel more engaged in school when they are able to see the connection between their studies and real-world applications, such as how what they're learning in the classroom will benefit them after graduation.

In choosing a high school course of study, you should seek input from parents, teachers, and school counselors. To assist you in discovering and honing in your interests, school staff will work to determine potential careers that match your interests. Our academic programs afford you the opportunity to select classes and elective courses in your areas of interest and vocational needs. Please recognize the importance of working hard and putting forth the required effort, throughout your educational journey, to be fully prepared for a successful future.

We serve the families of Cecil County and we are dedicated to the success of all students. We are constantly striving to do all we can for the benefit of our students and working every day to provide a world-class education. Take advantage of all there is available to you in CCPS. Enjoy your high school years, set your goals, and make a plan to achieve them.

I wish you much success throughout your high school career and in the years to come.

Sincerely,

Jeffrey A. Lawson Ed.D.
Superintendent of Schools

Cecil County Public Schools

MISSION STATEMENT

CCPS serves equitably through positive relationships as a safe, collaborative community. We will ensure all learners acquire the knowledge, skills, and qualities to be responsible, caring, and ethical citizens.

STRATEGIC PRIORITIES

- Safe Schools
- Equitable Rigorous Learning Opportunities
- Communication and Trust
- Operational Efficiencies
- Recruitment and Retention of a High-Quality Workforce
- Community and Engagement

VALUES

- Equity-We promote fairness, access, opportunity, and inclusion.
- Integrity -We practice honesty, trust, and transparency.
- High Standards -We meet each learner with expectations for growth and accountability.
- Collaboration -We work together to strengthen our communities.
- Whole Learner -We address the academic, behavioral, and social-emotional needs for each learner.

2026-27 Student Education Planning Guide

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Check out the interactive Student Education Planning Guide online at:

www.ccps.org

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The Student Education Planning Guide will assist each student in developing a long-term, personalized education plan to meet the challenges of the 21st century. Using this guide, students can see the relevance, purpose, and support for individual career goals that high school coursework, service learning, and extracurricular activities provide. This guide will help students, parents, and teachers discuss career goals in order to develop and implement a student graduation plan which takes the student beyond high school. With advanced planning and sustained effort, students can graduate from high school having earned college credit and/or industry certification.

How to Use the *Student Education Planning Guide*

Step 1
Review Graduation Requirements (page 2) and College & Career Readiness (CCR) Pathway requirements.

Step 2
Log in to your Naviance account.

a. Complete one or more of the Self-Discovery activities to find careers that match your skills and interests.
b. Explore the Career Clusters (also found on page 5)

Step 3
Take a look at the College & Career Ready (CCR) Pathways to determine which one is right for you.

- College Preparatory Pathway (page 9)
- Dual Enrollment/Early College Pathway (page 11)
- Career & Technical Education Pathway (CTE) (page 13 and 14)

Step 4
If you are interested in STEM Endorsement, review those requirements (page 17)

Step 5
Share with your school counselor where your interests lie so together you can create the best schedule for you.

Graduation Requirements

Credit Requirements

A minimum of 25 credits must be earned in grades 9 through 12 to receive a Maryland High School Diploma. Students must be enrolled at least four years beyond grade 8 unless a formal waiver is granted by the Superintendent of Schools.

CREDIT REQUIREMENTS

English 4

Mathematics 4
- 1 credit must be algebraic concepts
- 1 credit must be geometric concepts
- A student must take one math credit per year beyond grade 8.*

Social Studies 4
- 1 Government or AP US Government & Politics
- 1 World History
- 1 US History or AP US History
- 1 Introduction to Personal Finance

One credit per year is recommended but not required.

Science 3
- 1 credit must be in Earth & Space Science
- 1 credit must be in Life Science
- 1 credit must be in Physical Science

Fine Arts 1

Physical Education ..... .75
- .5 credit must be in Personal Fitness

Health Education 1

Technology Education 1
- Computer Science Essentials
- Foundations of Technology
- Intro to Engineering Design

Electives 6

Completion of the following:
- World Language (2) and/or
- Career & Technical Education Completer Program (3-10)

**A second math credit earned in the year may count as an elective*

Make-up credits, pending availability, must be earned through county-approved options.

Approved dual enrollment courses may also count as graduation requirements.

Assessment Requirements

To meet the graduation requirement, students enrolled in the courses highlighted below must:

- Government: pass the course AND participate in the MCAP (end of course exam which counts as 20% of the final grade).
- Science: pass the courses AND participate in LS MISA (end of course exam which counts as 20% of the final grade).
- Algebra I: pass the course AND pass the MCAP test.
- English 10: pass the course AND pass the MCAP test.

Dynamic Learning Maps (DLM) will be administered to a small number of identified students with specific disabilities and modified academic goals. Results of the High School Assessments are recorded on students' report cards and transcripts.

Transfer student requirements may differ based upon first time 9th grade enrollment.

For more information, visit www.mdk12.org.

Service Learning Requirements

All students must complete the graduation requirement in service learning. The requirement will be met by successful completion of infused service learning units in grades 6 through 9, or a service learning course in grades 11 or 12. Transfer students entering grades 6, 7, 8, or 9 will be required to complete the subsequent units upon enrollment in the Cecil County Public Schools (e.g., a student who transferred into the Cecil County Public Schools in grade 7 would be required to complete the service learning units in grades 7, 8, and 9 to meet the graduation requirement).

Transfer students need to meet one of the following:
- proof of previous satisfactory service learning; or
- satisfactory completion of the service learning course; or
- satisfactory completion of an approved service learning project co-planned by the student and the building level Service Learning Coordinator.

Promotion

END-of-YEAR PROMOTION

Cecil County Public Schools requires the following minimum number of accumulated credits to advance from one grade to another at the end of each school year.

Grade 9 to 10 - 5 Credits (2nd year in high school)
(Four of the five credits must be in *core subjects.)

Grade 10 to 11 - 11 Credits (3rd year in high school)
(Six of the eleven credits must be *core subjects.)

Grade 11 to 12 - 17 Credits (4th year in high school)
(Eight of the seventeen credits must be in *core subjects.)

MID-YEAR PROMOTION

A student who has been retained may be promoted mid-year if that student has the potential to earn enough credits during the second semester to move ahead to the next grade level.

Repeat 9th Grader: Must have earned enough credits through mid-year that, if all credits are earned during the second semester, the student will have at least 11 credits (Five of the 11 credits must be earned in *core subjects).

Repeat 10th Grader: Must have earned enough credits through mid-year that, if all credits are earned during the second semester, the student will have at least 17 credits (Eight of the 17 credits must be earned in *core subjects).

Repeat 11th Grader: Must have earned enough credits through mid-year that, if all credits are earned during the second semester, the student will meet all credit requirements for graduation.

* English, science, math, social studies, or world language.

5th Year Seniors: Should a student return for a 5th year, they are only responsible for taking the courses needed for graduation.

Graduation Endorsements

Diploma Endorsements

Students graduating may earn the following endorsements on their high school diploma:

- **College and Career Ready State endorsement -** This requires the student to meet College and Career Readiness Option 1 or 2
- **Career and Technical Education (CTE) State endorsement -** This requires the student to complete one program of study, comprised of 3-5 courses, in grades 9-12
- **STEM endorsement -** This requires the student to complete one of two pathways, Math and Science Focus Pathway or CTE Program Focus Pathway

Certificate Endorsements

Students earning a Maryland Certificate of Program Completion (MCOPC) rather than a high school diploma may earn one or more endorsements:

- **Post-Secondary Education endorsement**
- **Work-Ready/Employment/Career endorsement**
- **Community/ Citizenship endorsement**

Six-Year Plans

A Six-Year Plan is a comprehensive, student-centered academic and career roadmap that students begin developing in middle school and utilize throughout high school and the post-secondary transition. The plan is designed to ensure that every student engages in intentional preparation for post-secondary success with the guidance of supportive adults. It provides a structured framework for aligning coursework, career exploration, extracurricular activities, and supportive services with students' identified interests and aptitudes to support personal, learning, and career goals.

Six-Year Plans allow students to:

- **Identify aptitudes and interests early,** leaving time for skill development, career exploration, purposeful course enrollment, and engagement in related learning experiences in and out of the classroom.
- **Understand the pathways available to them before, during, and after high school,** enabling students to make informed choices and seize opportunities before they pass.
- **Connect coursework to personal career goals,** building confidence, increasing motivation, and fostering ownership of their learning and growth.
- **Leverage a coordinated system of support,** including families, teachers, administrators, school counselors, career coaches, and other supportive adults who can readily access students' plans to guide progress toward goals.
- **Grow and evolve** by serving as a fluid document that is regularly updated as student interests develop, goals shift, and new opportunities emerge in a rapidly changing economy and world.
- **Graduate prepared to pursue postsecondary goals,** by successfully identifying, planning for and completing the steps necessary to achieve individualized academic and career aspirations.

Six-Year Plans allow supportive adults to:

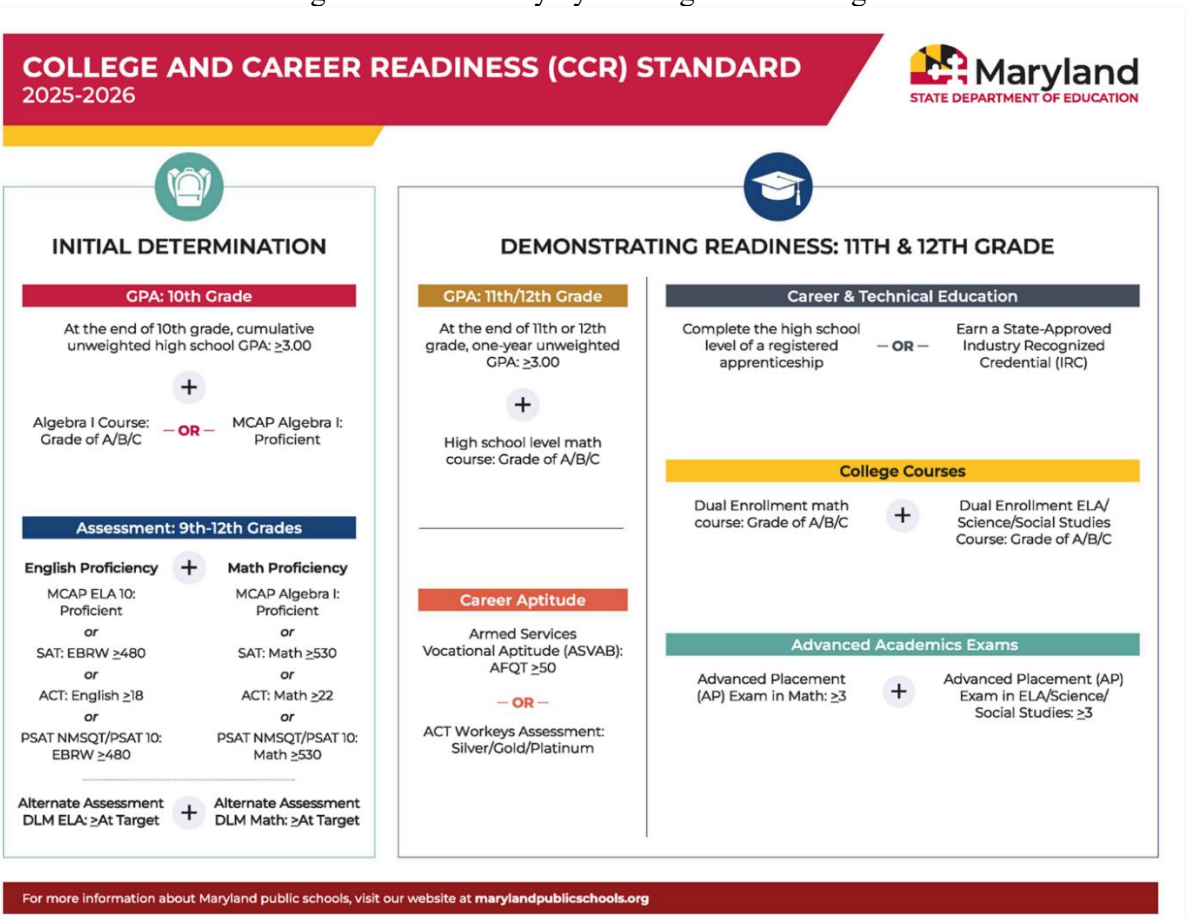
- **Identify students' interests and aspirations early,** allowing for programmatic decisions to be made in time to support students' goals.
- **Know what career exploration activities** best align with students' interests, strengths, and needs.
- **Effectively provide students guidance during transition** by ensuring that a student's history and progress are preserved when a student transfers schools or when staffing changes occur.
- **Work collectively to foster student growth and success,** by coordinating supports, sharing information and thoughtfully partnering across roles and teams.

Career Clusters Go to Naviance for more information: https://clever.com/in/cecilcounty	
	Agriculture, Food and Natural Resources
	Architecture and Construction
	Arts, Audio/Video Technology and Communications
	Business Management and Administration
	Education and Training
	Finance
	Government and Public Administration
	Health Science
	Hospitality and Tourism
	Human Services
	Information Technology
	Law, Public Safety, Corrections and Security
	Manufacturing
	Marketing
	Science, Technology, Engineering and Mathematics
	Transportation, Distribution Logistics

College and Career Readiness Standard

The Blueprint for Maryland's Future has a central goal of ensuring that all Maryland public school students are College and Career Ready (CCR) before graduation, thus signifying an ability to transition successfully to postsecondary coursework at a two- or four-year institution or to the workforce. All instruction and assessments in public schools should work toward this goal of preparing students to be ready for college and career. To actualize this vision, the standard of what it means to be College and Career Ready needs to be defined and then set as the north star for PreK-12 education. The Blueprint set the preliminary CCR standard to be measured by meeting or exceeding the content standards (earning a score of 4 or 5 on the PARCC) on high school assessments.

The Maryland State Board of Education (SBOE) reinforced this standard by adopting a policy stating students are considered college and career ready by meeting the following criteria:



The Blueprint for Maryland's Future: Sets a new College and Career Readiness standard that allows graduates to succeed in college courses; the goal is for all students to meet the standard by the end of 10th grade.

- Develops Post-CCR pathways to advance learning and earn a credential
- Develops CCR-support pathways for students to achieve the CCR standard
- Develops CTE system that is aligned with industry's needs
- PK-12 curriculum, standards, and assessments are aligned towards new CCR goal

Post College and Career Readiness pathways provide students with the opportunity to develop in depth knowledge in a subject area of their choosing.

College & Career Readiness

9th & 10th Grade

GPA Requirement – 3.0

Achieve this by the end of 10th grade.

Algebra Success

Must pass with a C or higher.

College Credits

Up to 8 FREE Courses

Total value of $6,500 for your future.

Advanced Placement

Up to 8 FREE AP Exams

Total value of $800.

Trade Certifications

Certifications valued between $100 and $800 available for FREE.

College & Career Readiness

11th & 12th Grade

GPA Requirement

Achieve a **3.0** unweighted for this school year.

Math Success

Must pass any Math class with a C or higher.

College Credits

Up to 8 FREE Courses

Total value of $6,500 for your future.

Advanced Placement

Up to 8 FREE AP Exams

Total value of $800.

Trade Certifications

Certifications valued between $100 and $800 available for FREE.

Post College and Career Readiness Pathway Options

Post-CCR pathways provide students with the opportunity to develop in-depth knowledge in a subject area of their choosing. Pathways also enable high school students to earn a specific certificate, license, or other credential that is recognized and valued by the higher education and industry communities. There are three Post-CCR pathways: College Preparatory Pathway, Dual Enrollment or Early College Pathway, and Career and Technical Education (CTE) Pathway.

College Preparatory Pathway

The Blueprint for Maryland's Future includes a comprehensive College Preparatory Pathway designed to enhance college readiness and provide students with advanced placement opportunities. The College Preparatory Pathway is part of the Post-CCR Pathways, available to students who meet the College and Career Readiness (CCR) standard by the end of 10th grade. This ensures that students are well-prepared for the rigors of college-level coursework. Under the College Preparatory Pathway, students have access to Advanced Placement (AP) courses following the Maryland AP Option.

Maryland AP Option

Component Title	Component Explained
Title	Maryland AP Option
Minimum Number of Required AP Courses	5
Specific Courses Required	At least 2 courses in the same content area AND at least 2 content areas included
Score Requirement	3 or higher on at least 3 AP exams AND a grade of C or higher in 5 AP courses

Advanced Placement Courses (offerings may vary by school):

English/Language Arts & Research
- AP English Language and Composition
- AP English Literature and Composition
- AP Seminar
- AP Research

Mathematics
- AP Precalculus
- AP Calculus AB
- AP Calculus BC
- AP Statistics

Science
- AP Biology
- AP Chemistry
- AP Environmental Science
- AP Physics 1: Algebra-Based
- AP Physics 2: Algebra-Based
- AP Physics C: Electricity and Magnetism
- AP Physics C: Mechanics

Social Studies
- AP Human Geography
- AP Psychology
- AP United States Government and Politics
- AP United States History

Arts
- AP 2-D Art and Design
- AP 3-D Art and Design
- AP Art History
- AP Drawing
- AP Music Theory

Computer Sciences
- AP Computer Science A
- AP Computer Science Principles
- AP Cybersecurity

World Languages
- AP Chinese Language and Culture
- AP French Language and Culture
- AP Spanish Language and Culture

Suggested AP courses that align with MD AP Option as well as the career clusters. If you are interested in certain clusters, look below to find the AP courses that can help to support this. It is recommended that you meet with a school counselor to create your four-year high school plan.

Agriculture, Food and Natural Resources		**Architecture and Construction**		**Arts, Audio/Video Technology and Communications**		**Business Management and Administration**	
9	AP Environmental Science	10	AP Physics 1	10	AP Language & Composition	9	AP US Government & Politics
10	AP Biology	11	AP Art History	11	AP Art	10	AP Language & Composition
10	AP Language & Composition	11	AP Calculus AB	11	AP Art History	10	AP Psychology
11	AP Chemistry	11	AP Calculus BC	11	AP Literature & Composition	11	AP Statistics
11	AP World Languages	12	AP Art	11	AP Music Theory	11	AP World Languages
Education and Training		**Finance**		**Government and Public Administration**		**Health Science**	
10	AP Human Geography	9	AP US Government & Politics	9	AP US Government & Politics	10	AP Biology
10	AP Language & Composition	10	AP Language & Composition	10	AP Human Geography	10	AP Language & Composition
10	AP Psychology	11	AP Psychology	10	AP Language & Composition	10	AP Psychology
11	AP Statistics	11	AP Statistics	10	AP Psychology	11	AP Chemistry
11	AP World Languages	11	AP World Languages	10	AP US History	11	AP Statistics
Hospitality and Tourism		**Human Services**		**Information Technology**		**Law, Public Safety, Corrections and Security**	
10	AP Human Geography	10	AP Human Geography	10	AP Computer Science Principles	9	AP US Government & Politics
10	AP Language & Composition	10	AP Language & Composition	10	AP Language & Composition	10	AP Language & Composition
10	AP Psychology	10	AP Psychology	11	AP Calculus AB	10	AP Psychology
11	AP Literature & Composition	11	AP Statistics	11	AP Computer Science A	10	AP US History
11	AP World Languages	11	AP World Languages	11	AP Statistics	11	AP Statistics
Manufacturing		**Marketing**		**Science, Technology, Engineering and Mathematics**		**Transportation, Distribution Logistics**	
10	AP Physics 1	10	AP Language & Composition	10	AP Computer Science Principles	10	AP Language & Composition
11	AP Calculus AB	10	AP Psychology	10	AP Physics 1	10	AP Physics 1
11	AP Calculus BC	11	AP Literature & Composition	11	AP Chemistry	11	AP Calculus AB
11	AP Physics 2	11	AP Statistics	11	AP Physics 2	11	AP Physics C
11	AP Physics C	11	AP World Languages	11	AP Physics C	11	AP Statistics

Dual Enrollment/Early College Pathway

The Blueprint for Maryland's Future includes robust provisions for dual enrollment and early college programs, aimed at providing students with advanced educational opportunities. This alignment ensures that students are well-prepared for the rigors of college-level coursework.

Dual Enrollment

The Dual Enrollment Pathway allows high school juniors and seniors to take college courses and earn both high school and college credits simultaneously. It provides a head start on college education and can significantly reduce the time and cost required to earn a degree. This is available to students who meet the College and Career Readiness (CCR) standard by the end of 10th grade.

Approved List of Dual Enrollment Courses

ART 180 – Basic Photography
BIO 130/131 – Principles of Biology
BUS 103 – Introduction to Business
CHM 103/113 – Chemistry I
CSC 104 – Introduction to Computer Science
EGL 101 – College Composition
EGL 102 – Composition & Literature
EGL 211 – Technical Writing
EGL 215 – Introduction to Creative Writing
ENV 106/116 – Introduction to Environmental Science
HEA 136 – Stress Management
HUM 101 – Introduction to Critical Inquiry
MAT 127 – Statistics
MAT 191 – Pre-Calculus
MAT 201 - Calculus I with Analytic Geometry
PHI 101 – Introduction to Philosophy
PHI 110 – Introduction to Ethics
PSC 105 – General Physical Science
PSY 101 – Psychology
SOC 101 – Sociology
SPH 121 – Interpersonal Communications
SPH 141 – Public Speaking
SPM 101 – Sports Management

Check with your counselor concerning dual enrollment courses offered at your school.

Early College Academy Program (Current EHS and PVHS Cohorts through Class of 2029)

Early College Academy (ECA) is a dual enrollment partnership between the Cecil County Public Schools and Cecil College. ECA is a four-year high school program where students will be taking college courses in conjunction with high school courses. All eighth-grade CCPS students who have completed Algebra I are eligible to apply to this program currently held at Elkton and Perryville High Schools. Upon successful completion of the ECA Program, students will earn an Associate's Degree in General Studies from Cecil College and a diploma from Cecil County Public Schools.

For more information regarding Early College Academy visit:
https://www.ccps.org/ccps-students/early-college-academy

Example of courses you are likely to see in the schedule if a student is part of the ECA program

	Courses at the home school	**Courses through Cecil College at the home school**	**Courses at Cecil College Campus**
9th Grade	Honors English 9 Honors Government Honors Biology Honors Geometry or Honors Algebra II Foreign Language I or II	DE Healthful Living DE Fitness Walking I & II 1 DE Elective (as determined by school)	
10th Grade	Honors English 10 Honors/AP US History Honors Chemistry or Honors Physics Honors Trig/Func/Stat or Honors Algebra II Foreign Language II or III	DE Fine Art DE Computer Science Fundamentals 3 DE Electives (as determined by school)	
11th Grade	Honors Trig/Func/Stat or AP Precalculus 1 Elective		DE Freshman Composition DE Composition and Literature DE World History I & II DE Physical Science w/ Lab 2 DE Cecil Concentration Electives
12th Grade			DE Social Science Elective DE Lab Science DE Math 3 DE Concentration Electives

Career and Technical Education (CTE) Pathway

The Blueprint for Maryland's Future includes a comprehensive Career and Technical Education (CTE) Pathway designed to prepare students for high-demand careers and further education. Here are the key components:

- Industry-Aligned Curriculum: The CTE system is aligned with industry needs, ensuring that students gain relevant skills and credentials that are valued in the job market
- Early Exposure and Career Counseling: Students are introduced to meaningful and well-paying careers early on, with regular career counseling to help them explore various career options
- Apprenticeships and Credentials: The CTE Pathway includes apprenticeships that lead to industry-recognized credentials, licensure, or postsecondary certificates, providing hands-on experience and job readiness

These components work together to provide Maryland students with the skills and opportunities needed for successful careers and further education. See page 14 for more information.

Career & Technical Education Completer Programs

Program offerings vary by school

ADVANCED TECHNOLOGY EDUCATION CTE PROGRAM (Through Class of 2028)

Advanced Technology I
Advanced Technology II
Advanced Technology III OR Apprenticeship: Advanced Tech

APPRENTICESHIP MARYLAND CTE PROGRAM (Through Class of 2027)

Apprenticeship I
Apprenticeship II
Apprenticeship III

BUSINESS, MANAGEMENT, & FINANCE/MARKETING CTE PROGRAM

Principles of Business Management & Entrepreneurship
Principles of Accounting and Finance
Introduction to Marketing OR Apprenticeship: Business Management, and Finance – Marketing

COMPUTER SCIENCE CTE PROGRAM

AP Computer Science Principles
AP Computer Science A
AP Cybersecurity OR Apprenticeship: Computer Science

HOSPITALITY AND TOURISM MANAGEMENT CTE PROGRAM

Principles of Hospitality and Tourism
Hospitality and Tourism Management
Hospitality and Tourism Work Based Learning Experience

JUNIOR RESERVE OFFICERS' TRAINING CORP (JROTC) (EHS only)

Leadership Education and Training I
Leadership Education and Training II
Leadership Education and Training III
Leadership Education and Training IV

PLTW® BIOMEDICAL SCIENCES CTE PROGRAM (CCST and PHS only)

Principles of Biomedical Sciences
Honors Human Body Systems
Honors Medical Intervention
Honors Biomedical Innovation with Lab™

RESIDENTIAL CONSTRUCTION CTE PROGRAM

Introduction to Construction and Safety
Residential Construction Skills I
Residential Construction Skills II OR Apprenticeship: Residential Construction Skills

School of Technology CTE Completer Programs

Agricultural Sciences Program*
AHP - Certified Nursing Assistant Program
AHP - Certified Clinical Medical Assistant Program
American Culinary Federation - Professional Cooking Program
Automotive Technology Program
Commercial Vehicle & Heavy Equipment Repair Program
Construction Trades Program
Cosmetology Program
Criminal Justice & Law Enforcement Program
Electrical Trades Program
Fire Science/Emergency Medical Services Program
Heavy Industrial Maintenance Program
Homeland Security & Emergency Preparedness Program* (For Class of 2027 Only)
Interactive Media Production Program*
IT Networking Academy (Cisco Academy) Program
Landscaping & Horticulture Production
Manual Machining/CNC Programming & Operations
Plumbing/HVAC Technology Program
Project Lead The Way: Biomedical Sciences Program*
Project Lead the Way: Pre-Engineering Program*
Teacher Academy of Maryland Program*
Welding & Metals Technology Program

* Capstone project required

CTE Licenses and Certifications	
Academy of Health Professions - CNA	Certified Nursing Assistant Criminal Background Check/Fingerprinting CPR/AED Healthcare Providers Certification
Academy of Health Professions - Certified Clinical Medical Assistant	Certified Clinical Medical Assistant CPR/AED Healthcare Providers Certification
Advanced Technology Education	Onshape
Agricultural Sciences	NRCSFundametals of Conservation & Sustainability in Agriculture Capstone Project American Heart Association HeartSaver CPR, AED, First Aid
American Culinary Federation - Professional Cooking	ServSafe & ACF-NOCTI (written & performance) CPR/AED Certification
Apprenticeship Maryland	Aligns with relevant industry
Automotive Technology	ESCO 609 Refrigerant Recovery & Recycle ASE Certification Testing *end of course* American Heart Association HeartSaver CPR, AED, First Aid
Commercial Vehicle & Heavy Equipment Repair	EPA 609 Med/Heavy Truck Brakes Med/Heavy Truck Steering & Suspension Med/Heavy Electrical & Electronics Med/Heavy Diesel Engines Med/Heavy Truck Preventative Maintenance/ASE IMMR S/P2 Heavy Duty Diesel Technology Safety American Heart Association HeartSaver CPR, AED, First Aid
Construction Trades	NCCER - Core: Intro to Craft Skills NCCER - Carpentry Level I American Heart Association HeartSaver CPR, AED, First Aid
Cosmetology	State Board of Cosmetology Exam and State Board Kit Domestic Violence Training Barbicide Certification American Heart Association HeartSaver CPR, AED, First Aid
Criminal Justice & Law Enforcement	National Incident Management System (NIMS) American Heart Association HeartSaver CPR, AED, First Aid
Electrical Trades	NCCER - Core: Intro to Craft Skills NCCER - Electrical Level I American Heart Association HeartSaver CPR, AED, First Aid
Fire Science/Emergency Medical Services	EMT-B Firefighter I Rescue Technician (Common Passenger Vehicle Extrication) *Other certifications are available*
Heavy Industrial Maintenance	NCCER - Core: Intro to Craft Skills NCCER - Industrial Maintenance Level I American Heart Association HeartSaver CPR, AED, First Aid
Hospitality and Tourism Management	ServSafe Manager Certification
Interactive Media Production	Adobe Creative Cloud Certifications Capstone Project American Heart Association HeartSaver CPR, AED, First Aid

IT Networking Academy (Cisco Academy)	CompTIA Security+ 701 (required) CompTIA A+ 1201 & 1202 (optional) American Heart Association HeartSaver CPR, AED, First Aid
Landscaping & Horticulture Production	Certified Professional Horticulturalist Maryland Pesticide Applicator American Heart Association HeartSaver CPR, AED, First Aid
Manual Machining/CNC Programming & Operations	OSHA 30 General Industry American Heart Association HeartSaver CPR, AED, First Aid
Plumbing/HVAC Technology	NCCER - Core: Intro to Craft Skills NCCER - HVAC Level I NCCER - Plumbing Level I EPA Refrigerant Recovery (4 parts) American Heart Association HeartSaver CPR, AED, First Aid
Project Lead the Way Biomedical Sciences	Capstone Project BACE Certification American Heart Association HeartSaver CPR, AED, First Aid
Project Lead the Way Pre-Engineering	Capstone Project American Heart Association HeartSaver CPR, AED, First Aid
Residential Construction	OSHA 30
Teacher Academy of Maryland	Para Pro Capstone Project American Heart Association HeartSaver CPR, AED, First Aid
Welding & Metals Technology	AWS SENSE – Entry Level 1 OSHA 30 American Heart Association HeartSaver CPR, AED, First Aid

NCCER= National Center for Construction Education & Research

Virtual Learning

BLENDED VIRTUAL PROGRAM

The Blended Virtual Program (BVP) is an online educational program that offers fully synchronous (live) instruction for students. Students that enroll and are accepted into the BVP participate in live instruction through Schoology and Zoom. All courses in the BVP are instructed by Cecil County Public School teachers and require students to attend daily. While the BVP does not offer all courses that are available in the traditional face to face school setting, courses from all core content areas as well as a variety of electives are available. Students enrolled in the BVP are eligible to participate in all extracurricular activities (sports, clubs, dances, prom, etc.) at their home schools. For further information, contact your school counselor.

Science, Technology, Engineering, & Mathematics (STEM)

The Cecil County Public School STEM Endorsement is a challenging program of study for students planning to enter college to prepare for careers in mathematics, science, and engineering in an ever-changing and highly technical global society. Students are offered a rigorous, accelerated curriculum, beyond the regular high school curriculum, rich in lab and work-based experiences. STEM courses are designed to challenge students with integrated technologies and extensive problem-solving. Opportunities to work with experts in the field and current technology both within the school and the community will be an essential part of the program and prove invaluable as students complete their capstone projects.

To earn a STEM Endorsement, you have two pathways to choose from:

Pathway 1: Math and Science Focus

Requirements	Details
Math Courses	• Complete four (4) math courses, with 1-2 at the AP or college-level
Science Courses	• Complete four (4) science courses, with 1-2 at the AP or college-level
Advanced Courses	• Must have a total of at least five (5) AP or college-level courses • Three (3) out of the five (5) AP or college-level courses must be in math and science content area
Grades	• Earn a B or higher in all math and science courses

AND/OR

Pathway 2: CTE Program Focus

Requirements	Details
CTE Program	• Complete a CTE program that requires a capstone project/course
Capstone Project	• Participate in a presentation of the Capstone Project or Capstone ePortfolio at the Annual Gallery Walk
Grades	• Earn a B or higher in all CTE courses

Weighted Classes & Class Rank

A weighted grade point average (GPA) is used in computing class rank to compensate for certain courses differing in their level of academic challenge. Weighted courses are designated by

Honors/Advanced Placement Courses

Honors and Advanced Placement (AP) courses challenge students to extend their learning through creativity and independence. Students are provided the opportunity to explore the curriculum in depth and work with their peers to pursue areas of interest. Students who take honors and Advanced Placement courses should demonstrate the capacity to work independently and in small groups, read complex texts, and persevere in understanding difficult concepts. When considering enrollment in these courses, students should seek advisement from their current teachers and school counselor. Additional weight may be applied to a student's GPA based on successful completion of the course requirements.

These courses are open to all students. Advanced Placement exam ordering deadlines are in the fall for AP Courses. Students are responsible for registering for the exam using the join code provided by the teacher of the course.

Midterm and Final Exam

In order to prepare students for rigorous assessments expected in post-secondary education, students enrolled in honors courses that are traditionally taken in grades 11 or 12 will be given a midterm assessment. Additionally, all honors courses traditionally taken in grades 11 or 12 will have a final exam. The final exam will be 20% of the final grade in the class and be factored in the final grade using quality points.

Twilight Program

The Twilight Program is an educational program designed to help students with behavioral and academic concerns. The primary focus of the program is to support students and provide opportunities for academic and behavioral growth and success.

Maryland High School Certificate

The goal of the certificate program is to use all available resources to ensure that students are able to enter the workplace and become responsible, productive citizens.

The Maryland High School Certificate is awarded to students with disabilities who cannot meet the requirements for a diploma. A student with a disability may be considered for the Maryland High School Certificate if he/she:

- meets the criteria for taking the Dynamic Learning Maps (DLM); or
- is enrolled in an educational program for at least 4 years beyond grade 8 or its age equivalent, and is determined by an IEP team, with the agreement of the parents of the student, to have developed appropriate skills for the individual to enter the world of work, to act responsibly as a citizen, and to enjoy a fulfilling life in the world of work including, but not limited to: (a) gainful employment, (b) work activity centers, (c) sheltered workshops, and (d) supported employment or
- has been enrolled in an educational program for 4 years beyond grade 8 or its age equivalent and will have reached the age of 21 by the end of his/her current school year.

Credit for High School Courses taken during Middle School

High school credit will be granted for the following mathematics courses taken in middle school: Algebra I, Geometry, and Algebra II. The grade earned will not be used in the calculation of the high school grade point average. Students must still complete one credit of mathematics per year in the high school.

High school credit will also be granted for world language courses taken in middle school. The grade earned will not be used in the calculation of the high school grade point average. The credit will count toward one of the two sequential courses needed for the world language completer program.

Students planning to attend college should note that most colleges do not recognize high school credits earned in middle school. These students should complete at least two (2) sequential world language credits while in grades 9 through 12 in order to meet college admission requirements.

Credit Recovery

Students who have failed a course but have done one of the following are eligible for CCPS Credit Recovery:

- passed one marking period in a semester-long course
- passed two marking periods in a year-long course
- passed one marking period and the final exam in a year-long course

These students will complete two modules of assignments that will be provided by district administrators and facilitated by school staff. Once the student has satisfactorily completed the work, the student receives a P grade for the class, and credit is awarded. The original F on the transcript remains and is factored into the student's overall GPA.

Grade Recoup

Students who earn a 50% to 59.9% as their final grade for a marking period are eligible to participate in the CCPS Grade Recoup program. Students are made aware of their eligibility. Students must then meet with their teacher(s) to identify which assignments must be completed to successfully recoup their grades. Per the CCPS Athletic Handbook, students currently participating in athletics are given five (5) school days following the notification of their Grade Recoup status to complete the assignments in order to maintain their athletic eligibility. Students not participating in athletics are given ten (10) school days following the notification of their Grade Recoup status to complete the assignments. The highest marking period grade a student can earn from successfully completing Grade Recoup is a D.

Athletic Eligibility

The Cecil County Interscholastic Athletics Program is an integral part of the educational process. The athletic program eligibility rules required for all students who wish to participate support the academic function of the Cecil County Public Schools by encouraging all students to reach their academic as well as athletic potential. To read the full policy please go to the Athletics page at www.ccps.org for the most up-to-date policy.

College Athletic Eligibility

The National Collegiate Athletic Association (NCAA) has specific guidelines for high school student athletes who wish to be eligible to compete in college athletics. There are three basic criteria which include:

1. Graduation from high school with mathematics credits through Algebra II;
2. Minimum core (unweighted) grade point average; and
3. Completion of 16 core courses.

Planning for college and college athletics should begin in grade nine in order to complete the core courses. Students should register with the NCAA clearinghouse by the end of their sophomore year. Check with your school counselor for information concerning the specifics of the above criteria. For more information on eligibility and to register, visit: eligibilitycenter.org.

Earning College Credit

Cecil County high school students have several options to earn college credits while still enrolled in high school:

- Advanced Placement Program (AP) courses;
- Articulated courses for college credit; and
- Additional college credit options.

Students should begin the planning process early to ensure that appropriate documents are completed in a timely manner.

Advanced Placement® Program (AP) Courses

Advanced Placement® Program (AP) courses are available in the high schools, and students may demonstrate that they have learned the equivalent of college level work by passing the appropriate AP exam(s) provided by The College Board. Course credits granted for AP courses vary from college to college, so students should contact the college(s) of their choice for specific AP policies. Contact your school counselor for assistance.

Not all AP courses are available at every Cecil County high school. The College Board must approve each AP course. Some AP courses may be available online, but must be taken in a classroom setting during the regular school day.

Parents and students should review a variety of criteria (e.g., academic achievement, teacher recommend-ation, standardized test scores, portfolio review) when considering enrollment in AP courses. To earn AP weighted high school credit, students enrolled in an AP course must take The College Board exam administered at the conclusion of the course. Scores earned on an AP exam are not included as part of the final grade in the AP course.

A student may also take an AP exam without having taken the course. The approximate cost for the AP Exam would be $98. The College Board will provide a schedule of exams to be given during morning and afternoon sessions over a two-week period in May. Consult your school counselor for exam schedule information.

It is the student's responsibility to have an official AP Score Report sent to their selected college(s) in order to have their scores considered for college credit. To request an official score report and for more information: www.collegeboard.org

AP Exam	Credit	CC
AP Art History	3	ART 141 (H)
AP Biology*	4	BIO 101(S), BIO 111 (Lab) or BIO 130(S), BIO 131 (Lab) or BIO 132 (S), BIO 133 (Lab)
AP Calculus (AB)*	4	MAT 201 (M)
AP Calculus (BC)*	8	MAT 201 (M), MAT 202 (M)
AP Chemistry*	4	CHM 103 (S), CHM 113 (Lab)
AP Computer Science A	6	CSC 109, CSC 205
AP Computer Science Principles	3	CSC 104 (I)
AP English Language & Comp	3	EGL 101 (E)
AP English Literature & Comp	6	EGL 101 (E), EGL 102 (H)
AP Environmental Science*	4	ENV 106 (S), ENV 116 (Lab)
AP European History*	6	HST 101 (H), HST 102 (H)
AP French Language & Culture	6	FRN 101 (H), FRN 102 (H)
AP Gov't & Politics (U.S.)	3	POS 201 (SS)
AP Human Geography	3	GEO 102 (SS)
AP Macro Economics	3	ECO 222 (SS)
AP Micro Economics	3	ECO 221 (SS)
AP Music Theory	7	MUC 110, MUC 143 (H)
AP Physics 1: Algebra Based	4	PHY 181 (SL)
AP Physics 2: Algebra Based	4	PHY 182 (SL)
AP Physics C: Mechanics*	4	PHY 217 (SL)
AP Physics C: Electricity and Magnetism*	4	PHY 218 (SL)
AP Psychology	3	PSY 101 (SS)
AP Spanish Language & Culture	6	SPN 101 (H), SPN 102 (H)
AP Statistics	4	MAT 127 (M)
AP Studio Art: Drawing	6	ART 130 (H), ART 230 (H)

** Must earn a score of 3 on AP exam to receive Cecil College credit.*

Cecil College reserves the right to re-evaluate and make necessary changes to credit awards.

For more Information about AP courses and credits that will be granted at other colleges and universities visit: https://apstudents.collegeboard.org/

Articulated Agreements

Some high school courses may qualify for college credit through articulation agreements. However, each college or university determines which courses they will award credit for. Because policies vary, it is important for students to check directly with the admissions or registrar's office at the individual college they plan to attend. This ensures that students understand which articulated courses will transfer and count toward their degree program.

Additional Course Options

Dual Enrollment Courses

Qualified high school students may enroll in specified college course(s) that meet graduation requirements while receiving college credit for the course(s).

To be eligible for dual credit, college courses must support the student's graduation plan and must align with the courses identified in this *Student Education Planning Guide*. Prior to enrolling in a college course for high school credit, eligible students must meet program guidelines and complete required forms. Students electing to enroll in a course that counts as college credit and high school credit must have prior approval of the Superintendent through an application process.

High school credit will be awarded for successful completion of a college course.

- College courses with two (2) or fewer credit hours will receive one-half (1/2) high school credit
- College course with three (3) credit hours (100 level or higher) will receive one (1) high school credit
- College courses with four (4) or more credit hours (100 level or higher) will receive two (2) high school credits

Grades earned in college courses taken for high school credit will be included in the student's high school grade point average. If the college course is an extension or continuation of an honors or AP course offered by CCPS or equivalent to a comparable rigorous college-level course, it will be calculated as a weighted course.

**For more specific details on weight values see your school counselor*

Dual Enrollment – Repeat College Courses

Qualified high school students may enroll in repeat college level math and/or science courses for dual enrollment. To be eligible for repeat college level dual enrollment courses, students must have met the four (4) math and/or three (3) science credit requirement. Counselors will seek repeat dual enrollment course approval from the Executive Director of Secondary School Education.

Junior Year Dual Enrollment-

Juniors approved for dual enrollment may attend classes at their high school or attend classes at Cecil College after the school day. They will graduate with their high school class and retain full privileges as high school students. Prior application and approval from the Superintendent is required for this option. Students and parents/guardians must submit applications to the Board for dual enrollment by the deadline indicated in CCPS regulation IKFAA-RB.

Students requesting a junior year dual enrollment must:

- have completed testing and service learning requirements for the state of Maryland,
- have demonstrated ability to do college work as evidenced by historical grades at the end of sophomore year.
- meet all college admission requirements and enroll in and complete the minimum number of college credits (level 101 or higher) required for dual enrollment;
- be recommended by the principal.

Senior Year Dual Enrollment -

Seniors approved for dual enrollment will attend classes at a selected college or career/technical school and graduate with their high school class. Prior approval from the Superintendent is required for this option. Students and parents/guardians must submit requests to the Board for dual enrollment of the senior year by the deadline indicated in CCPS regulation IKFAA-RB Guidelines for Dual Enrollment of Senior Year.

Students requesting senior year dual enrollment must:

- have completed all testing and service learning requirements for the state of Maryland;
- have demonstrated ability to do college work as evidenced by historical grades at the end of junior year.
- meet all college admission requirements and enroll in and complete the minimum number of college credits (level 101 or higher) required for dual enrollment;
- be recommended by the principal.

Students who are granted dual enrollment are eligible to participate in extra-curricular activities.

Senior Waiver

Students who have met graduation requirements to be considered a senior may request to waive a portion of their high school day to take non-dual enrollment college courses.

Partial Day Senior Waiver

Seniors approved for a partial day waiver will attend classes at their high school and may take non-dual enrollment college classes at a selected college or career/technical school. Prior application and approval from the Superintendent is required by the deadline indicated in the CCPS regulation IKFA-RA. Seniors approved for partial day waiver will submit documentation of enrollment in classes at selected college or career/technical school.

Full Day Senior Waiver

Seniors approved for a full day waiver will attend non-dual enrollment college classes at a selected college or career/technical school. Prior application and approval from the Superintendent is required by the deadline indicated in the CCPS regulation IKFA-RB. Seniors approved for full day waiver will submit documentation of enrollment in classes at selected college or career/technical school.

Seniors granted senior waiver are eligible to participate in extra-curricular activities including interscholastic athletics provided a portion of the equivalent program takes place in the high school during the traditional day.

Early Graduation

Students may request to terminate attendance in high school at the end of 11th grade if all credit requirements and other applicable graduation requirements are satisfied. The student must:

- be admitted as a full-time student to an approved (accredited) college program; or
- be admitted as a full-time student to an approved (accredited) career, technical or vocational school, or other approved post-secondary program; or
- show proof of enlistment to any branch of the Armed Services; or
- demonstrate compelling personal circumstances to the satisfaction of the Superintendent.

Students electing to graduate early relinquish all student privileges associated with the senior year, including participation in interscholastic athletics and eligibility for valedictorian and salutatorian honors.

Students electing to graduate early:

- will be ranked with the class with which they would normally graduate;
- may take part in graduation ceremonies with the earlier graduation class;
- may sit for senior portraits; however, portraits will not be printed in the senior section of the yearbook; and
- may compete for college financial aid and/or scholarships—local, state, or national.

Students and parents/guardians must submit requests for early graduation to school counselors by June 15 after completion of the tenth grade.

Senior Option

Seniors may request to opt out of four classes for the senior year if they meet specific criteria. The student must:

- Be on track to graduate and have earned a minimum of nineteen (19) credits
- Have a high school schedule that accommodates his/her graduation needs including college & career readiness requirements
- Be making sufficient progress in obtaining CCR status
- Pass all classes
- Be enrolled in at least 4 credit bearing classes
- Classes must be taken consecutively
- Provide his/her own transportation to and/or from school

Junior Option

Juniors may request to opt out of 4 classes (max) for the junior year if they meet specific criteria. The student must:

- Be on track to graduate and have earned a minimum of sixteen (16) credits
- Have a high school schedule that accommodates his/her graduation needs including college & career readiness requirements
- Have obtained CCR status
- Pass all classes
- Be enrolled in at least four (4) credit bearing classes
- Classes must be taken consecutively
- Provide his/her own transportation to and/or from school.

Planning for Your Future

The school guidance office has many resources to assist students with making post-secondary education and career choices. This includes admission requirements and information about employment opportunities immediately following high school graduation.
A financial aid guide which provides local, state, and national scholarship and financial aid resource information is also available through the school guidance office. This guide contains a listing of websites for further information about financial aid and scholarships.

See your school counselor to find out how you can prepare for tomorrow...today!

Check out Naviance for Career and College Planning:
http://clever.com/in/cecilcounty

Career Planning Websites
bigfuture.collegeboard.org
www.bls.gov/ooh
careers.collegeboard.org
www.careeronestop.org
www.mynextmove.org
www.swnetwork.org

College Planning Websites
www.collegeanswer.com
www.collegeboard.org
www.collegesimply.com
www.fastweb.com
www.getschooled.com

College Application Process

The college application process is a comprehensive one. Colleges and universities consider the *whole* student in their admission decisions. Students entering college must have a solid academic record and a variety of extra-curricular experiences. According to the *National Association for College Admissions Counseling's (NACAC) State of College Admission Report,* the top factors in the admissions decision are:

1. High School transcript, which includes:
   - overall grades
   - difficulty of courses taken
   - grade point average (GPA)
2. SAT®/ACT® Scores
3. Other factors, including:
   - class rank
   - quality of essay or writing sample
   - teacher/counselor recommendations
   - student interview
   - work or extracurricular activities
   - clear interest in attending the institution

Students should seek information on the college application process from their school counselors.

Visit
Cecil County
Public Schools
at
www.ccps.org

Minimum Requirements for Admission to Most Post-Secondary Educational Programs

University System of Maryland (USM)

MINIMUM HIGH SCHOOL COURSE REQUIREMENTS FOR ADMISSION	
SUBJECT	**CREDITS**
English	4
Social Studies/History	3
Mathematics (must include Algebra I, Geometry, and Algebra II)	4
Biological & Physical Sciences	3*
World Language or Advanced Tech	2** 3
Academic Electives	6

** For students interested in science-oriented careers (such as medicine, engineering, veterinary medicine, physical therapy), four years of science are recommended in three different science areas with at least three lab experiences.*

*** The two world language credits must be in the same language. Each institution will determine whether advanced technology courses will be accepted in lieu of world language. Please contact the institution(s) of your choice for information.*

University System of Maryland includes:

Bowie State University
Coppin State University
Frostburg State University
Salisbury University
Towson University
University of Baltimore
University of Maryland, Baltimore
University of Maryland, Baltimore County
University of Maryland, College Park
University of Maryland Center for Environmental Science
University of Maryland Eastern Shore
University of Maryland Global Campus

Each USM institution has guidelines for evaluating applications of students who have not completed all the required courses for admission. In some cases, students who lack a required course are permitted to demonstrate their competency in a given field as an alternative to completing a required high school course. These courses, along with an acceptable standardized test score, represent the minimum high school requirements for application to the USM institutions previously listed. Individual campuses and programs also have additional requirements. Students should contact the admissions office to ask about these requirements. For more information, visit www.usmd.edu.

FOUR-YEAR COLLEGES/UNIVERSITIES OUTSIDE THE STATE OF MARYLAND

Most four-year colleges/universities have the same minimum requirements as those of the USM. For information about the college of your choice, contact the college admissions office.

TWO-YEAR COLLEGES AND TECHNICAL COLLEGES

Most community and technical colleges welcome students with an "open door" philosophy. Skills assessments are usually required in the areas of English, math, and reading to assess students' academic readiness for college-level coursework, or to strengthen these areas if necessary. Check with the individual college of your choice for more specific information.

Transfer Information

Credits earned at a Maryland community college will generally transfer to the University System of Maryland (USM). Contact the individual school for specific information on transfer policies.

SAT®/ACT®/PSAT® Information

SAT®

Students applying to college may need to take the SAT® exam and have their official score reports sent to the colleges of their choice. National test dates for the 2026-2027 SAT® are anticipated to be:

- August 15, 2026
- September 12, 2026
- October 3, 2026
- November 7, 2026
- December 5, 2026
- March 13, 2027
- May 1, 2027
- June 5, 2027

Students in 11th grade will take the SAT Reasoning Test. The fee for the SAT Reasoning Test™ is approximately $70. SAT Subject Test™ fees vary depending on the subject. Registration deadlines apply for all tests; these are listed on SAT® information documents and can be found at the SAT® website at www.collegeboard.org. Consult your school counselor for assistance.

Students may be eligible for free registration. Information about Fee Waiver Eligibility is located at https://satsuite.collegeboard.org/sat/registration/fee-waivers/fee-waiver-eligibility.

Preparing to take the SAT® Exam

Cecil County Public Schools offers assistance to help students prepare for the SAT Reasoning Test™. This assistance is offered during the school year depending upon demand, and will help students determine their strong and weak testing areas, provide them with appropriate assistance, and track their progress.

See page 30 in this guide for more information about the SAT® review courses available at your school during the school year.

For practice exams, sample SAT® questions, or the College Board SAT® preparation course, visit www.collegeboard.org and/or www.khanacademy.org.

ACT®

Students applying to college may opt to take the ACT®. At most colleges/universities, the ACT® will satisfy both the SAT Reasoning Test™ and some SAT Subject Tests™. National test dates for the 2026-2027 ACT® program are scheduled for:

- September 12, 2026
- October 3, 2026
- November 7, 2026
- December 5, 2026
- February 5, 2027
- April 9, 2027
- June 5, 2027
- July 10, 2027

The ACT® fee is approximately $70. The optional writing test is approximately an additional $25. Registration deadlines apply for all tests. Registration information can be found at the ACT® website www.actstudent.org. Visit the website for a practice exam or sample ACT® questions. Consult your school counselor for further assistance.

Students may be eligible for free registration for up to four ACT tests, with or without the optional writing test for National testing. Information about Fee Waiver Eligibility is located at https://www.act.org/content/dam/act/unsecured/documents/FeeWaiver.pdf.

PSAT/NMSQT®

The PSAT/NMSQT® is a standardized test that provides practice for the SAT Reasoning Test™. If taken as a junior, it also gives students a chance to enter National Merit Scholarship Corporation (NMSC) scholarship programs. The PSAT/NMSQT® fee is approximately $20.

Students take the PSAT®:

- to assess reading, mathematics, and writing skills and provide strategies for improvement;
- to identify potential for Advanced Placement courses;
- to provide practice for the SAT®; and
- to identify areas of strength and weakness in reading, mathematics, and writing skills.

Secondary Schools Directory

Bohemia Manor High School 2755 Augustine Herman Highway Chesapeake City, MD 21915	410-885-2075
Bohemia Manor Middle School 2757 Augustine Herman Highway Chesapeake City, MD 21915	410-885-2095
Cecil County School of Technology 912 Appleton Road Elkton, MD 21921	410-392-8879
Cherry Hill Middle School 2535 Singerly Road Elkton, MD 21921	410-996-5020
Elkton High School 110 James Street Elkton, MD 21921	410-996-5000
Elkton Middle School 615 North Street Elkton, MD 21921	410-996-5010
North East High School 300 Irishtown Road North East, MD 21901	410-996-6200
North East Middle School 200 East Cecil Avenue North East, MD 21901	410-996-6210
Perryville High School 1696 Perryville Road Perryville, MD 21903	410-996-6000
Perryville Middle School 850 Aiken Avenue Perryville, MD 21903	410-996-6010
Rising Sun High School 100 Tiger Drive North East, MD 21901	410-658-9115 410-378-2273
Rising Sun Middle School 289 Pearl Street Rising Sun, MD 21911	410-658-5535 410-398-3019
Cecil Alternative Program at Providence 3035 Singerly Road Elkton, MD 21921	410-398-6900

FAMILY RESOURCE CENTER

The Family Resource Center exists to benefit all youth with disabilities by assisting parents, educators, and the community. The center provides training and education as well as connections to appropriate social agencies. The center's resources include:

- a lending library of articles, newsletters, books, and videos providing a wide range of special education topics, such as special education law, types of disabilities, support group information, and recreational opportunities;
- a liaison to strengthen communication between parents and school personnel;
- a free workshop on Understanding Special Education;
- community presentations to both parent groups and school staff;
- a referral service for community resources; and
- a Family-to-Family Support Network.

Located at Leeds Elementary School
410-996-5637
frc@ccps.org

Course Descriptions

The courses listed on the following pages are offered by Cecil County public high schools. Course descriptions in this guide are based upon instructional objectives and course standards. Course availability is dependent upon the special needs of the school population, the staff allocation at each school, and the expertise of each school's staff.

Courses are described in the following categories:

- CAREER & TECHNICAL EDUCATION
- DRIVERS EDUCATION
- ENGLISH LANGUAGE ARTS
- FINE ARTS
- MATHEMATICS
- MULTILINGUAL EDUCATION
    - ENGLISH LANGUAGE DEVELOPMENT (ELD)
    - WORLD LANGUAGES
- PHYSICAL EDUCATION & HEALTH EDUCATION
- SCIENCE
- SERVICE LEARNING
- SOCIAL STUDIES
- STUDENT SUPPORT & SERVICES

Please refer to the legend below for the meaning of the icons used in the course descriptions.

Legend	
	College Credit Eligibility (Credit value can be found starting on page 20)
CO:	Corequisite
DLM	Dynamic Learning Maps
EOC	End of Course state assessment counts for 20% of final grade
$	Fee Required
FE	Final Exam
L/C	License/Certification
LS MISA	Life Science Maryland Integrated Science
MCAP	Maryland Comprehensive Assessment Program
RC	May Be Taken for Repeat Credit
P/F	Pass/Fail (non-graded)
	Physical Exam (Required)
PRE:	Prerequisite Course(s) (Required)
REC:	Recommended Course(s) (Suggested)
	Student Transportation (Required)
TE	Technology Education Credit
	Weighted Course

English Language Arts

CCPS English courses are grouped according to grade level and academic challenge. All courses are aligned to Maryland College and Career Readiness Standards and meet state requirements for graduation. In each course, regardless of academic challenge, students read a balance of high interest contemporary text and classical works of fiction and nonfiction while writing emphasizes text-based argumentation, narration, and analysis.

In addition to the required language arts classes, a selection of electives that complements those core classes are available for students to explore specific areas of study (e.g. Honors College Writing, The Art of Expression, World Mythology, etc.) Availability of these elective courses is dependent on schedule requests and staff allocation.

English 9

0200301 1 Credit Grade 9

Aligned to the 9-10 grade band of the Maryland College and Career Ready Standards, this course requires students to demonstrate proficiency in these standards as they apply to reading, writing, speaking, listening, and using language. As students explore short and extended pieces of literature, they are expected to transfer their understandings of author purpose and choice to make deliberate decisions in their own writing. Assignments in this class may expose students to mature and sensitive texts.

Honors English 9

0201301 1 Credit Grade 9

Aligned to the 9-10 grade band of the Maryland College and Career Ready Standards, this course requires students to demonstrate proficiency in these standards as they apply to reading, writing, speaking, listening, and using language. As students explore short and extended pieces of literature, they are expected to transfer their understandings of author purpose and choice to make deliberate decisions in their own writing. Required reading outside the classroom is essential to success in this course. Due to the advanced rigor of this course, students will likely be exposed to mature and sensitive issues through the literature studied.

English 10 **MCAP**

0202301 1 Credit Grade 10

This course enriches the language arts, inquiry, and analysis skills developed in English 9, guiding students toward mastery of the 9-10 grade band standards. Text and language study emphasizes vocabulary acquisition, grammar as an element of style, critical thinking, discussion, and the explication and synthesis of authors' ideas in student writing. Students continue to develop writing products across genres that are informed by Maryland's College and Career Readiness Standards. Deployed through sets of various texts, the course explores classic and contemporary literature as well as pertinent non-fiction.

Honors English 10 **MCAP**

0203301 1 Credit Grade 10

This course enriches the language arts, inquiry, and analysis skills developed in English 9, guiding students toward mastery of the 9-10 grade band standards. This course continues an intensive study of literature, non-fiction, and composition that will prepare students for success in Advanced Placement English courses. Students will come to master literary forms, rhetorical devices, methods of critical analysis, vocabulary skills, and further develop their writing. Discussion, collaboration, and presentation skills are vital components of the curriculum. Students will continue to expand their knowledge of challenging classic and modern texts from a variety of genres, including poetry, the novel, the short story, non-fiction, and drama. Due to the advanced rigor of this course, students will likely be exposed to mature and sensitive issues through the literature studied.

English 11

0204301 1 Credit Grade 11

Aligned to the 11-12 grade band of the Maryland College and Career-Ready Standards, this course requires students to evaluate the reasoning of the documents that shaped America. (e.g., The Declaration of Independence, The Constitution, Common Sense, etc.). As a result of closely reading key passages from these sources, students will understand how the documents have affected American identity and continue to shape contemporary American literature and culture. Assignments in this class may expose students to mature and sensitive texts. Students continued mastery of SAT skills is also a goal of the program. Required reading and extensive writing outside of the classroom is essential to success.

Honors English 11 **FE**

0205301 1 Credit Grade 11

Aligned to the 11-12 grade band of the Maryland College and Career-Ready Standards, this course requires students to evaluate the reasoning of the documents that shaped America. (e.g., The Declaration of Independence, The Constitution, Common Sense, etc.). As a result of closely reading key passages from these sources, students will understand how the documents affect literature and

identity throughout American history. Students continued mastery of SAT skills is also a goal of the program. Required reading and extensive writing outside of the classroom is essential to success, and a final exam will be administered at the conclusion of the course. Due to the advanced rigor of this course, students will likely be exposed to mature and sensitive issues through the literature studied.

English 12

0206301 1 Credit Grade 12

Aligned with the 11-12 grade band of the Maryland College and Career Ready Standards, the English 12 curriculum has been developed in collaboration with Cecil College to prepare students for college-level course work. Students will engage with contemporary fiction and non-fiction texts, complete authentic and recursive writing tasks, and think deeply about texts and the world in order to develop literacy proficiency. Upon meeting criteria established by Cecil College, students will earn a waiver for EGL 093, Integrated Reading and Writing Level II, offered at Cecil College. These criteria include, but are not limited to, approximately 2500-3000 words of finished formal writing, four exams, including a comprehensive exam, a 70% or higher course average, and a 70% or higher grade on the comprehensive exam. Students can pass English 12 by meeting the criteria outlined in the CCPS grading policy without earning the Cecil College voucher.

Honors English 12

0207301 1 Credit Grade 12

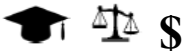
Aligned to the 11-12 grade band of the Maryland College and Career-Ready Standards, this course requires students to fully integrate their learning experiences as they transition to institutions of higher learning. Students will engage in authentic research and grapple with sophisticated literary themes as they hone the skills they will need for success in college. They are expected to transfer those understandings to enhance the value of their own writing. Required reading and extensive writing outside of the classroom is essential to success, and a final exam will be administered at the conclusion of the course. Due to the advanced rigor of this course, students will likely be exposed to mature and sensitive issues through the literature studied.

The Art of Expression RC

0227305 1/2 Credit Grade 10-12

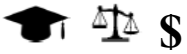
0227301 1 Credit Grade 10-12

The Art of Expression is about identifying and analyzing why artists (poet, novelist, sculptor, etc.) created their work and the impact those choices have on society. The overarching goal of these units is to build understanding in how perspective, interaction, cycles, and culture influence art. In addition to discovering and analyzing these relationships, students will create several original pieces and will also complete writing tasks that examine how artistic repetition affects the creative process. Additionally, this course will expose students to the cycles of art creations, stereotypes, and the influence of art and trends on society.

AP Seminar 

0212302 2 Credits Grade 10

AP Seminar is an interdisciplinary course that will encourage students to develop and practice the skills in research, collaboration, and communication that they will need in any academic discipline. Students will investigate topics in a variety of subject areas, design and give presentations both individually and as part of a team, and write research-based essays. Content in texts, viewing an issue from multiple perspectives, gathering and combining information from sources, and crafting arguments based on evidence. To earn an AP weighted high school credit, students enrolled in this AP course must submit an AP Seminar performance task via the AP Digital Portfolio by the date assigned by the College Board and students must take the College Board exam administered at the conclusion of the course.

AP Language & Composition 

0211302 2 Credits Grades 10-12

This course is an introductory college-level composition course. Students cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situation, claims and evidence, reasoning and organization, and style. The course skills are organized within nine units that scaffold student development of the analysis and composition skills required for college credit. For each unit, the teacher selects a theme or topic and then chooses texts, typically short nonfiction pieces, that enable students to practice and develop the reading and writing skills for that unit (apcentral.collegeboard.org). Outside class reading and writing assignments with follow up requirements may occur. Students and parents are advised that required assignments may involve reading material that is sophisticated and mature in nature. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. The purchase of some support material is optional.

AP Literature & Composition $

0213302 2 Credits Grades 11-12

This course is an introductory college-level literary analysis course. Students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting, structure, perspective, figurative language, and literary analysis in the context of literary works. The AP English Literature and Composition curriculum is made up of nine units: Units 1, 4, and 7: Short Fiction; Units 2, 5, and 8: Poetry; Units 3, 6, and 9: Longer Fiction or Drama (apcentral.collegeboard.org). Outside class reading and writing assignments with follow up requirements may occur. Students and parents are advised that required assignments may involve reading material that is sophisticated and mature in nature. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. The purchase of some support material is optional.

Honors College Writing FE

0219401 1 Credit Grades 10-12

Honors College Writing can be counted as a fourth English credit if students have taken and earned credit in both AP Language & Composition and AP Literature & Composition.

The primary objective of this course is to provide a research-based focus for students to hone skills that will lead to post-secondary success. The course fosters a sense of accountability within students to research and advocate particular correlations between two factors that requires advanced inductive reasoning skills and logic.

The following are a few of the course methods:

- Research-based inquiries and cross-referencing material
- Research-oriented projects
- Understanding the importance of credibility within research

In this research-based course, students delve into the dynamic of thesis development and support, with specialized areas of focus that employ twenty-first century skills such as collaboration, critical thinking, work ethic, global awareness, and technological literacy.

Media Publications RC

0228305 1/2 Credit Grades 10-12
0228301 1 Credit Grades 10-12

Media Publications is about understanding how to create and distribute media with the intention of conveying a message. Everything within our global community is dependent on something else. Within the context of Media, this may apply to a studio system (consisting of cameras, lighting, audio equipment) which works toward the objective of a broadcasted message. **PRE:** *Completion of application and letters of recommendation*

SAT Review RC

0230005 1/2 Credit Grades 10-11
0230001 1 Credit Grades 10-11

SAT: Verbal Review

0231304 1/4 Credit Grades 10-11
0231305 1/2 Credit Grades 10-11

SAT: Mathematics Review

0732304 1/4 Credit Grades 10-11
0732305 1/2 Credit Grades 10-11

This course helps students prepare to take the SAT Reasoning exam. Students are involved with a review of vocabulary and test-taking skills, as well as mathematical, critical reading, and writing concepts. Support materials may need to be purchased. **REC:** *Geometry*

Speech/Discussion & Debate

0221305 1/2 Credit Grades 10-12
0221301 1 Credit Grades 10-12

Speech, Discussion, and Debate is about developing a professional speaking persona and personal credibility, determining source credibility, applying effective research, using logic, and shaping communication to develop our global society. Throughout the process, foundational ideas surrounding communication are discussed and made to flourish. Most of all, students should feel free to speak their minds and enjoy communication. Students' initial speaking experiences along with their research will be refined into the argumentation practice which they will later review (through video experience) and critique in order to perfect their own skills. They will also use research skills from the first two modules to create a counterargument against themselves; this will provide them with an in-depth look at both sides of an argument.

World Mythology

0223305 1/2 Credit Grades 10-12
0223301 1 Credit Grades 10-12

World Mythology is the study of a collection of myths that belong to people and addresses their origin, history, deities, ancestors, and heroes. The study of mythology is designed to reveal core values embedded in a particular society which will require students to study multiple cultures, faiths, and beliefs. The underlying goal of this course is for students to uncover the timeless nature of human experience. This course should also serve to allow students to acquire knowledge and build and analyze connections between various cultures throughout time and

space. This discovery will allow students to find modern consequences of world mythology in a global society.

Yearbook RC

0232305 1/2 Credit Grades 10-12
0232301 1 Credit Grades 10-12

This course involves student participation in the production of the school yearbook. The course includes the language arts, mathematics, and graphic arts skills involved in such production. **PRE:** C*ompletion of application and letters of recommendation*

Young Adult Literature

0226301 1 Credit Grades 10-12

Young Adult (YA) Literature is a category of literature written for adolescent readers. In this elective, students will engage with many texts spanning various genres of YA novels, including historical fiction, mystery, romance, realistic fiction, fantasy, and science fiction. This course is meant to provide students with an opportunity to explore current and classic YA offerings. Because this course requires a significant amount of reading, **it is recommended that students have a passing grade in their previous year's English Language Arts course.** Young Adult Literature may explore issues that are sensitive and mature in nature; therefore, parent permission is required for students to enroll in the course.

Fine Arts

Students are given the opportunity to participate in a wide variety of fine arts activities. Curricular programs in art, dance, drama, and music are offered on the elementary, middle, and high school levels and reflect the Fine Arts Learning Outcomes for Maryland.

High school students may select a wide variety of fine arts courses on the introductory through advanced placement levels. Courses present an opportunity for students to exhibit or perform their works in school, county, and statewide exhibits.

Outstanding students in each of the fine arts areas are recognized in All County and All State performances, exhibits, and displays.

Portfolio Evidence and Musicianship Levels:
Within the course descriptions, portfolio evidence indicates that the student will be required to submit documents such as original art works, compositions, recommendations, resumes, photographs, videotapes, or evidence of previous accomplishments.

*Eighth grade students may apply to waive Foundations of Art with respective high schools. A portfolio and application are required.

Musicianship levels for band and orchestra indicate that the student must be able to demonstrate, through audition, Levels I and II performance indicators from the instrumental curriculum.

Advanced Programs:
Honors, Studio, and AP courses are open to students in grades 11 and 12 who demonstrate exceptional ability in the visual and performing arts. These courses provide more in-depth studies in art, dance, music, and drama. An application, interview, audition, or portfolio submission may be requested.

Visual Art Sequence:
Students MUST complete Foundations of Art before continuing on to other courses.

Art

Foundation Level

Foundations of Art

0400401 1 Credit Grades 9-12

This course provides students with a comprehensive background in the arts with emphasis in two- and three-dimensional design. This course is recommended, but not limited, to those who plan to pursue advanced art courses.

Creative Crafts $

0404005 1/2 Credit Grades 9-12
0404001 1 Credit Grades 9-12

This course helps students develop creative crafts, techniques, and processes which may include fiber arts, stained glass, sculptures, general crafts, and seasonal crafts. ($35 for materials)

Humanities

0401401 1 Credit Grades 9-12

This course focuses on explaining the experience of mankind through the arts and how they play a role in

documenting the human experience. Areas of focus include: philosophy, history, art, music, film, and media.

Level I

2D & Graphic Design I $

0408301 1 Credit Grades 9-12

This course familiarizes students with various graphic and design techniques. Students study materials and processes which may include linoleum, wood block, silk screen, computer graphics/video (when facilities permit), calligraphy, poster design, commercial package designs, etching, and found object printing. ($25 for materials) **PRE:** Foundations of Art, portfolio evidence, or Foundations of Art Waiver

Drawing I $

0405001 1 Credit Grades 9-12

This course introduces students to two-dimensional design and drawing skills. Students explore a variety of drawing tools and materials. Students are also exposed to a knowledge of aesthetics, style, and the history of art related to drawing and design. ($25 for materials) **PRE:** *Foundations of Art, portfolio evidence, or previous art teacher recommendation*

Drawing/Painting I $

0409001 1 Credit Grades 9-12

This course introduces students to the basic concepts and media used in drawing and painting from observation, imagination, and memory. Students may work in charcoal, pastel, watercolor, acrylic, and tempera. ($35 for materials) **PRE**: *Foundations of Art, portfolio evidence, or Foundations of Art Waiver*

Sculpture & Ceramics I $

0411001 1 Credit Grades 9-12

This course allows students to explore three-dimensional design through the creation of art works which may include the use of clay, wood, metal, wire, paper, plaster, and other media. This course also includes exposure to aesthetics, style, and history of art related to sculpture and ceramics. ($35 for materials) **PRE:** *Foundations of Art, portfolio evidence, or Foundations of Art Waiver*

Photography I $

0412001 1 Credit Grades 9-12

This course contains a rigorous curriculum which introduces students to the use of specialized photographic equipment including cameras, lenses, and developing processes. Students are expected to demonstrate the ability to produce acceptable two-dimensional design in the production of photographic themes using 35mm or digital photography. Students may be required to bring in their own 35mm (SLR) camera, paper and film, or a digital camera. ($35 for materials) **PRE:** *Foundations of Art, portfolio evidence, or Foundations of Art Waiver*

Level II

2D & Graphic Design II $

0414301 1 Credit Grades 10-12

This course is a continuation of 2D & Graphic Design I in which students expand upon various graphic and design techniques. Students elaborate upon techniques and processes working with linoleum, wood block, silk screen, computer graphics (where facilities permit), calligraphy, poster design, commercial package designs, etching, and found object printing. ($25 for materials) **PRE:** Photography I or 2D & Graphic Design I

Drawing II $

0413001 1 Credit Grades 10-12

This course concentrates on the expansion of applications of students' previously learned skills. Students gain exposure to aesthetics and history of art as related to two-dimensional drawing/design. ($25 for materials) **PRE:** *Drawing I or portfolio evidence*

Drawing/Painting II $

0416301 1 Credit Grades 10-12

This course concentrates on the expansion and refinement of skills and techniques previously learned in Drawing/Painting I. ($25 for materials) **PRE:** *Drawing/Painting I*

Sculpture & Ceramics II $

0418401 1 Credit Grades 10 -12

This course concentrates on the expansion and application of the students' skills previously learned in Sculpture & Ceramics I. The course includes an exposure to aesthetics, style, and art history related to sculpture and ceramics. ($35 for materials) **PRE:** *Sculpture & Ceramics I*

Photography II $

0419401 1 Credit Grades 10-12

This course concentrates on the expansion and application of students' skills previously learned in Photography I. Photographs produced will demonstrate quality two-dimensional design and an understanding of photographic techniques that may include digital design software. This course is more challenging than the introductory level

course and contains a rigorous curriculum. Students may be required to bring in their own 35mm (SLR) camera, paper and film, or a digital camera. ($25 for materials) **PRE:** *Photography I*

Studio Level III $ RC

The Studio Level III courses listed below concentrate on the expansion and application of the students' previously learned skills. These are advanced classes with a dominance of self-directed assignments. These courses also provide students with the opportunity to produce work for a portfolio which is usually a prerequisite for art schools. Due to the independent nature of these courses, students register on an individual basis for the existing program with recommendation of the art instructor. ($25 for materials, $35 for Sculpture & Ceramics) **PRE:** *Portfolio evidence*

2D & Graphic Design
0472001 1 Credit Grades 11-12

Drawing/Painting
0423601 1 Credit Grades 11-12

Drawing
0424001 1 Credit Grades 11-12

Photography
0431001 1 Credit Grades 11-12

Sculpture & Ceramics
0421001 1 Credit Grades 11-12

AP Studio Art $

0473402 AP 2-D Design 2 Credits Grades 11-12
0473502 AP 3-D Design 2 Credits Grades 11-12
0473702 AP Drawing 2 Credits Grades 11-12

Students choose between one of three portfolios: Drawing, 2-Dimensional Design, or 3-Dimensional Design. To earn an AP weighted high school credit, students enrolled in AP Studio Art must complete and submit a portfolio following the guidelines set by the College Board. Purchase of some support materials is required. ($40 for materials) **PRE:** *Level II or portfolio evidence*

AP Art History $

0473602 2 Credits Grades 11-12

Students participate in individual research projects and develop college level skills such as outlining, writing about art, and more. This course provides a general survey of Art History from Prehistoric to Contemporary times on a college freshman level. Focus is on different cultures and traditions, and how art changes with them. Lecture, reading, discussion, and multi-media presentation will be used. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course.

Performing Arts

Introduction to Dance
0440001 1 Credit Grades 9-12

This course introduces dance to students in its many forms and cultures with an emphasis that blends theory with practical application. Creative and structured dance forms are studied.

Honors Drama I FE RC

0443302 2 Credits Grades 10-12

This course is for students who have shown talent in the performing arts, either on stage or backstage. Students study theatre history, acting theories, critical analysis, performance/production skills, and improvisation. Students are involved in the development of full-scale theatre productions. Purchase of support materials is optional. Students earning a B or better in Honors Drama I & II may earn articulated college credit. A final exam will be administered at the conclusion of the course. **PRE:** *Theatre or Theatre Design, portfolio evidence, and committee review*

Honors Drama II FE

0444302 2 Credits Grade 12

This course runs concurrently with Honors Drama I with an emphasis on directing, designing, acting, acting theories, and technical theatre. Students are involved in the development of full-scale theatre productions. Purchase of support materials is optional. This course is held at RSHS and is available to students from each of the high schools. A final exam will be administered at the conclusion of the course. **PRE:** *Honors Drama I and committee review*

Theatre
0445401 1 Credit Grades 9-12

This course introduces students to the basics of theatre with an emphasis on acting and public speaking. Students may study improvisation, mime, theatre history, puppet theatre, oral interpretation, and theatrical analysis. This course emphasizes play and character analysis, scene development, aesthetic criticism, basic directing skills, theatre history, and script memorization.

Theatre Design $ RC

0451001 1 Credit Grades 10-12

This course introduces students to the basics of technical theatre. The course explores fundamental design and

development properties of scenery, lighting, costume, makeup, and sound. Aspects of publicity and theatre history are also included. Students may work on technical and design aspects of a real stage production. ($15)

Music

Concert Band RC

0460401 1 Credit Grades 9-12

This course is designed for students who are still developing their instrumental skills. Experiences are performance-based and will include a range of solo, small ensemble, and large ensemble repertoire both during and after the school day. Performance at school and community events are an integral part of the program and may take place beyond normal school hours. **PRE:** *Musicianship levels I & II*

Percussion Ensemble RC

0460501 1 Credit Grades 9-12

All percussionists will enroll in this ensemble instead of band class. This is a performance based class, where students will learn performance techniques for a variety of percussion instruments, and develop an understanding of basic music theory concepts. Students perform various percussion ensemble and/or band music. The ensemble may perform in concerts, local and performance-based and will include a range of solo, small ensemble, and large ensemble repertoire both during and after the school day. Activities include multiple public performances. **PRE:** *Audition/Band Director's Approval*

Wind Ensemble RC

046601 1 Credit Grades 9-12

Wind Ensemble utilizes materials more technically demanding than those for Concert Band. Wind Ensemble is designed for the student of advanced ability level. Experiences are performance-based and will include a range of solo, small ensemble, and large ensemble repertoire both during and after the school day. Performances at school and community events are an integral part of the program and may take place beyond normal school hours. **PRE:** *Audition/Band Director's Approval*

Jazz Ensemble RC

0474001 1 Credit Grades 9-12

This course helps students further their musicianship skills. Students study, prepare, and perform compositions representative of 20th century American jazz styles including swing, big band, bebop, cool jazz, fusion, and Latin jazz. Activities include concerts and performances during and beyond the school day. **PRE:** *Audition/Band Director's approval*

Foundations of Music

0462001 1 Credit Grades 9 -12

This course is designed to build a basis of musical knowledge through the application and use of the basic elements of music, the rudiments of musical notation, instrument classification, world music, music analysis, and music history. Upon exiting the course, students are expected to have a rudimentary understanding of music.

Chorus RC

0465001 1 Credit Grades 9-12

This course helps students develop musicianship and an understanding of all aspects of choral production. Performance activities at school or in the community may be included.

Concert Choir RC

0463001 1 Credit Grades 9-12

This course helps students develop musicianship and an understanding of all aspects of choral production. The concert choir performs at school and community concerts, and represents the school at choral activities. Experiences are performance-based and will include a range of solo, small ensemble, and large ensemble repertoire both during and after the school day. **PRE**: *Audition/Choir Director's approval*

Chamber Ensemble RC

0470001 1 Credit Grades 9-12

This course is for advanced choral musicians. Through a study of varied choral literature, this course seeks to develop and strengthen the vocal production of the advanced singer in an ensemble setting. Students develop their individual technique with focus on intonation, blend, tone, and diction. Students also study the relationship of music to history and culture. This ensemble performs for school and community concerts. **PRE:** *Audition/Choir director's approval*

Guitar I $

0466001 1 Credit Grades 9-12

This course offers students the basics of guitar. Students learn to read standard musical notation and play simple melodies. Students are also taught to accompany folk, traditional, and popular music in a variety of styles using basic chords in major and minor keys. Students may need to provide their own guitar. ($16 for materials)

Guitar II $ RC

0475001 1 Credit Grades 9-12

This course is for advanced guitar students. Through a study of varied guitar literature, this course seeks to develop and strengthen the guitar skills of the advanced guitarist. Experiences are performance-based and will include a range of solo, small ensemble, and large ensemble repertoire both during and after the school day. Students may need to provide their own guitar. **PRE:** *Guitar I; students must be able to read and play standard musical notation.* ($16 for materials)

Piano I

0467001 1 Credit Grades 9-12

This course offers students the basics of piano music. Students learn to read and play basic chords, note values, and rhythms. Upon completion of Piano I, students may take Piano II. Students must provide their own headphones and 1/4" adapter.

Piano II RC

0471001 1 Credit Grades 9-12

This course is for advanced piano students. Through a study of varied piano literature, this course seeks to develop and strengthen the piano skills of the advanced pianist. Students earning a B or better in Piano II may earn articulated college credit. Students must provide their own headphones and 1/4" adapter. **PRE:** *Piano I; students must be able to read and play standard musical notation*

String Orchestra RC

0469001 1 Credit Grades 9-12

This course helps students develop musical understanding and skills associated with the study of a string instrument (violin, viola, cello, or bass). Experiences are performance-based and will include a range of solo, small ensemble, and large ensemble repertoire for strings or full orchestra both during and after the school day. **PRE:** *Musicianship levels I & II*

Music Theory I $

0472301 1 Credit Grades 10-12

This course offers musically talented students the opportunity to develop their own musicianship through an understanding of musical elements. Students review music fundamentals and create their own music arrangements and compositions. In order to take Music Theory I, a student must be able to pass a rudimentary music test. Lab fee for workbook and Finale CD-ROM ($25) **PRE:** *Portfolio evidence*

AP Music Theory $

0472302 2 Credits Grades 11-12

This course enables talented vocal and instrumental students to develop a functional knowledge and understanding of the elements of music fundamentals through reading and writing music. Students develop musicianship and musical insight, and acquire an understanding of aesthetic and technical considerations through performance of original works alone and in ensemble. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. Some support materials may be optional. **PRE:** *Teacher approval*

Honors Ensemble RC

0461501 1 Credit Grades 11-12

Students in their 11th or 12th grade year who participate in one of the honors musical ensembles (any band, orchestra, or choir ensemble) will have the opportunity to receive weighted hours credit. Students will be required to participate in enhanced rigorous opportunities beyond the regular performance-based requirements each marking period. This may include experiences such as Solo and Ensemble participation, directing/rehearsing a piece for performance, a solo performance at a concert, and an All-County audition requirement. These opportunities will require an out-of-school time commitment, including evenings and possibly weekends. In addition, time spent on reflective writing, analysis, and interpretation of music is an emphasis of this experience. Students will be eligible for the Honors course with the approval of their ensemble teacher. **PRE:** *Minimum of two years in an ensemble*

Mathematics

Students must complete a minimum of one (1) mathematics course per year and earn a minimum of four (4) mathematics credits during grades 9-12. One credit must include a course that meets the Maryland College and Career Readiness Standards in algebra; one credit must include a course in geometry.

Algebra I and Geometry meet the graduation requirements as defined by the Maryland State Department of Education (MSDE). Incoming 9th grade students may have met one or both of these requirements if they successfully passed Algebra I and/or Geometry in middle school; however, students must still complete one math course per year during high school.

In order to meet National Collegiate Athletic Association (NCAA) admissions requirements and/or be eligible to participate in college athletics, students must earn three (3) mathematics credits through Algebra II during grades 9 through 12. The NCAA determines the courses for which credit is awarded.

Algebra II is a minimum requirement for acceptance into the University System of Maryland (USM). If a student takes Algebra II (including Honors Algebra II and both Algebra IIA and IIB) prior to senior year, the student must take a course that USM has approved and deemed "non-trivial". For CCPS, all courses beyond Algebra II, including Trig/Functions/Statistics, Honors Trig/Functions/Statistics, Precalculus, Honors Precalculus, Statistics, and Honors Calculus have been approved by USM. AP courses have been approved by both USM and the CollegeBoard.

Topics of Mathematics is a course that currently meets the local requirements for graduation, but does not meet the minimum course requirements for college admission by the University System of Maryland nor the requirements set by the NCAA.

Pre-Algebra
0722401 1 Credit Grades 9-10
This research-based intervention course combines direct algebra instruction with the use of technology to give students the opportunity for success in Algebra I, which is the next sequential course. Students will focus on instructional, modeled, and independent algebraic experiences.

Algebra I **MCAP**
0722301 1 Credit Grades 9-12
This course provides students the foundation skills for future mathematics courses, many careers, and college. This course will help students to view algebra as a theoretical tool for analyzing and describing mathematical relationships. Students will also experience the power of algebraic thinking in a context of applications by studying the mathematical modeling of real-world problems. The course content will include a rigorous approach to solving, graphing, and writing linear, quadratic, and exponential functions.

Algebra Lab
0701001 1 Credit Grades 9-12
This course is designed to provide additional support for students enrolled in Algebra I. Students receive targeted help using a variety of resources including technology and small group instruction. This course does not count as a math credit for graduation.

Geometry
0706301 1 Credit Grades 9-12
This course is designed to emphasize the study of the properties and applications of geometric figures in two and three dimensions. It includes the study of transformations, similarity, congruence, constructions, circles, and right triangle trigonometry. Inductive and deductive thinking skills are used in problem solving situations, and applications to the real world are stressed. The course also emphasizes solving and applying properties of geometric figures and the relationship between algebra and geometry. **PRE:** *Algebra I*

Honors Geometry
0721301 1 Credit Grades 9-10
This is a rigorous, college preparatory course for the accelerated mathematics student and is designed to emphasize the study of the properties and applications of geometric figures in two and three dimensions. It includes the study of transformations, similarity, congruence, constructions, circles, and right triangle trigonometry. Students will apply an array of inductive and deductive thinking skills through myriad problem solving situations, and applications to the real world are stressed. The course also emphasizes the use of coordinate geometry to prove relationships while exploring the relationships between algebra and geometry. This course may be taken concurrently with Algebra II or Honors Algebra II. **PRE:** *Algebra I*

Topics of Mathematics
0718001 1 Credit Grades 11-12
This course is designed for juniors and seniors as a course in Financial Algebra and designed for students who may need more time to develop a deep understanding of the underlying algebraic and statistical concepts before taking Algebra II or Algebra IIA. Students will explore mathematical concepts through the lens of personal finance, savings accounts, checking, investments, loans, credit cards, employment, taxes, mortgages, and more. Each unit combines the algebra and statistics with meaningful applications. One financial project is required in each marking period as part of the course. Please note that once a student has successfully completed Algebra II or Algebra IIB, this course is no longer a viable option. **PRE:** *Algebra I or Geometry*

Algebra IIA
0709301 1 Credit Grades 10-12
This is a slower-paced course covering the first half of the Algebra II course. This pace allows students more time to explore and understand the critical algebraic concepts for college and careers. Course topics include an analysis of linear functions, systems of linear

equations, matrices, quadratic functions and polynomial functions. This course alone does not satisfy the University System of Maryland Algebra II requirement. Students must pass both Algebra IIA and IIB in order to meet the Algebra II requirements. **PRE:** *Geometry*

Algebra IIB

0710301 1 Credit Grades 10-12

This is a slower-paced college preparatory course covering the second half of the Algebra II course. This pace allows students more time to explore and understand the critical algebraic concepts for college and careers. Course topics include exponential functions, logarithmic functions, rational functions, trigonometric functions, conic sections, and statistics. This course meets the requirements of the senior math college and career ready transition course. **PRE:** *Algebra IIA*

Algebra II

0708301 1 Credit Grades 9-12

This is a rigorous, fast-paced college preparatory course, designed to enhance and enrich students' understanding of Algebra I concepts while focusing on problem solving, reasoning, applications, and communication. Course topics include the relationship between linear, exponential, and quadratic functions, rational and radical functions, logarithmic functions, trigonometric functions, the unit circle, and statistics. **PRE:** *Geometry or Honors Geometry*

Honors Algebra II

0716001 1 Credit Grades 9-12

This is a rigorous, fast-paced, college preparatory course for the accelerated mathematics student that involves the exploration and application of variable quantities, mathematical models, and real world problems. Students will not merely find solutions, but enhance their understanding of the concepts underlying the solutions. Students will also be limited in their calculator usage. Course topics include the relationship between linear, exponential, and quadratic functions; rational and radical functions; logarithmic functions; trigonometric functions; the unit circle; and statistics. **PRE:** *Geometry or Honors Geometry*

Trig/Functions/Statistics

0713301 1 Credit Grades 10-12

This is a rigorous college preparatory course that includes the exploration and application of mathematical concepts. Students develop a deeper understanding of important mathematics, such as linear, exponential, logarithmic, and trigonometric functions; trigonometric identities; and relationships within and among function families. **PRE:** *Algebra II or Honors Algebra II*

Honors Trig/Functions/Statistics FE

0711401 1 Credit Grades 10-12

This is a rigorous, college preparatory course for the accelerated mathematics student that involves the production and investigation of mathematical models not merely to find solutions, but to enhance their understanding of the concepts underlying the solutions. During this course, students improve their problem-solving skills, critical thinking skills, and reasoning abilities. Students recognize, use, and interpret equivalent representations of the same concept, and communicate mathematical knowledge effectively. In addition, students connect mathematical concepts with other topics, to other disciplines and to real life as they prepare for success in Precalculus and beyond. Course topics include linear, exponential, logarithmic, and trigonometric functions; trigonometric identities; and relationships within and among function families. A final exam will be administered at the conclusion of the course.
PRE: *Algebra II or Honors Algebra II*

Precalculus

0714301 1 Credit Grades 10-12

This is a rigorous, college preparatory course for motivated mathematics students. Students explore applications and deeper understanding of important mathematics, such as rational functions, systems of equations, applications of matrices, series and sequences, conic sections, limits, and derivatives. **PRE:** *Trig/Functions/Statistics*

Honors Precalculus FE

0712401 1 Credit Grades 10-12

This is a rigorous, college preparatory course for the accelerated mathematics student that involves the production and investigation of mathematical models, or case studies, of real world problems. Students will use these models not merely to find solutions, but to enhance their understanding of the concepts underlying the solutions. During this course, students improve their problem-solving skills, critical thinking skills, and reasoning abilities. Students recognize, use, and interpret equivalent representations of the same concept, and they communicate mathematical knowledge effectively. In addition, students connect mathematical concepts with other topics, to other disciplines, and to real life as they prepare for success in calculus and beyond. Course topics include rational functions, systems of equations, applications of matrices, series and sequences, conic sections, limits, and derivatives. A final exam will be administered at the conclusion of the course. **PRE:** *Completion of or concurrent enrollment in Honors Trig/Functions/Statistics*

AP Precalculus $

0722402 2 Credits Grades 10-12

This is a rigorous, college preparatory course for the accelerated mathematics student. In AP Precalculus, students learn a broad range of function types. The course fosters a deep conceptual understanding of functions as well as symbolic manipulation skills. The course is organized into four major units that include Polynomial and Rational Functions, Exponential and Logarithmic Functions, Trigonometric and Polar Functions, and Functions Involving Parameters, Vectors, and Matrices. These function types are the foundation for careers in mathematics, biology, physics, health science, business, social science, and data science. The equivalent of a college-level precalculus course, AP Precalculus prepares students for the AP exam and future studies in science, engineering, and mathematics. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. **PRE:** *Algebra II or Honors Algebra II*

Honors Calculus FE

07115311 1 Credit Grades 11-12

This is a rigorous, college preparatory course for motivated mathematics students. The course helps students understand change geometrically, visually, analytically, and verbally. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. Course topics include limits, differentiation, integration, and applications. A final exam will be administered at the conclusion of the course. **PRE:** *Precalculus, Honors Precalculus, or AP Precalculus*

AP Calculus AB $

0741302 2 Credits Grades 11-12

This is a rigorous, college preparatory course for the accelerated mathematics student. In AP Calculus AB, students learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with formulas), numerically (by seeing patterns in sets of numbers), and verbally. Students learn to evaluate the soundness of proposed solutions and to apply mathematical reasoning to real-world models. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. The equivalent of an introductory college-level calculus course, AP Calculus AB prepares students for the AP exam and further studies in science, engineering, and mathematics. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. **PRE:** *Precalculus, Honors Precalculus, or AP Precalculus*

AP Calculus BC $

0743302 2 Credits Grades 11-12

This is a rigorous, college preparatory course for the accelerated mathematics student. In AP Calculus BC, students continue their exploration of the calculus of functions of a single variable. AP Calculus BC includes specifications for two calculus courses and includes all topics taught in Calculus AB plus additional topics, such as differential equations, Taylor Series, parametric functions, and polar functions. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. **REC:** *AP Calculus AB*

Statistics

0720001 1 Credit Grades 11-12

This is a college preparatory course that introduces students to the study of measures of central tendency, measures of variation, graphical representation of data, least squares regression, correlation probability, probability distributions, sampling techniques, parameter estimation, and hypothesis testing. The emphasis is on applications from a variety of sources including newspapers, periodicals, journals, and many of the disciplines that students may encounter. Students shall be expected to gather and analyze data, and formally report the results of their research. The use of technology is integrated throughout the course. This course may be taken immediately after Algebra II or it may be taken after any of the courses following Algebra II, including Calculus. **PRE:** *Algebra II or Algebra IIB*

AP Statistics $

0745302 2 Credits Grades 11-12

This is a rigorous, college preparatory course for the accelerated mathematics student. The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to five broad conceptual themes, which are exploring data, sampling, experimentation, anticipating patterns, and statistical inference. This course may be taken immediately after Algebra II or it may be taken after any of the courses following Algebra II, including Calculus. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. **PRE:** *Algebra II or Honors Algebra II*

Multilingual Education

English Language Development (ELD)

The ELD program is based on World-Class Instructional Design and Assessment (WIDA) English Language Development Standards which represent the social, instructional, and academic language that English Learners need to engage with peers and educators, the curriculum in schools, and participate in society. Through content-based language instruction, students acquire the language and literacy skills needed to achieve academic success and develop critical thinking, collaboration, and problem-solving skills. The courses available include ELDI, II, and III; each provides a learning environment that builds on students' assets, contributions, and potential.

** Availability of ELD courses varies. Please consult with the Office of Multilingual Education.*

ELD I (English Language Development) **RC**

0310301 1 Credit Grades 9-12

This course focuses on teaching English within academic contexts to students who are at the Entering levels of English language proficiency (i.e., Levels 1.0 – 1.9). Linguistic and literacy development are the primary focus as students acquire and negotiate the academic language needed to participate successfully in school. Instruction encompasses four language domains: listening, speaking, reading, and writing while gradually increasing the complexity of discourse, sentence, and word/phrase dimensions of language acquisition.

ELD II (English Language Development) **RC**

0311301 1 Credit Grades 9-12

This course builds upon the language and literacy development in ESOL I and is intended for students at the Emerging levels of English language proficiency (i.e., Levels 2.0 - 2.9). Language and literacy continue to be the primary focus as students acquire and negotiate academic language through the four language domains, learn to make sense of complex content, and articulate their understanding at higher levels of academic discourse specific to the content disciplines.

ELD III (English Language Development) **RC**

0312301 1 Credit Grades 9-12

This course is designed for English Learners within the Developing levels of English language proficiency (i.e., Levels 3.0-3.9). More emphasis is placed on linguistic and literacy development within academic contexts. Students are challenged with acquiring higher levels of academic language and making sense of more complex content/texts. They apply academic languages to articulate understanding and assess their own growing understanding and language development.

World Languages

The focus of the world languages program for grades 9-12 is on developing students' linguistic and cultural capacities to bring global competence to their future careers and experiences. Through learner-centered environments that emphasize critical thinking and problem solving, students acquire and practice the target language in relevant contexts while investigating and reflecting on the relationships between the products/practices and perspectives of the cultures studied.

The World Languages Completer Program includes a required two-course sequence of French, Chinese, or Spanish for all students planning to attend college. Students are encouraged to extend the sequence through Levels III, IV, and AP (where that course is available). All students are strongly encouraged to include this sequence in their graduation plan.

Due to the emphasis on interpersonal communication in the world languages curriculum, these courses cannot be taken as independent study.

Students planning to attend college should note that some colleges do not recognize high school credits earned in middle school. These students should complete at least two (2) sequential world language credits while in grades 9 through 12.

Level I: Chinese, French, Spanish

Chinese	**1231301**	1 Credit
French	**1201301**	1 Credit
Spanish	**1221301**	1 Credit

This course is an introduction to the study of the target language and its culture. Emphasis is placed on communication through the development of the four skills of listening, speaking, reading, and writing within a given context. The content focuses on the students' lives and experiences, and includes an exposure to everyday cultural customs and lifestyles. Students acquire some insight into how languages and cultures work by making comparisons to their own. Students identify the culture's products and practices to better understand different perspectives and learn to interact with cultural awareness in everyday, familiar contexts. (Note: Chinese available only at RSHS)

Level II: Chinese, French, Spanish

Chinese	**1232301**	1 Credit
French	**1202301**	1 Credit
Spanish	**1222301**	1 Credit

Students continue developing their listening, speaking, reading, and writing skills. They communicate orally and in writing on familiar situations in the past and present as they combine learned elements of the language. They develop skills to narrate, describe, and compare familiar topics from the target. (Note: Chinese available only at RSHS)

Honors Level III: FE

Chinese, French, Spanish

Chinese	**1233301**	1 Credit
French	**1203301**	1 Credit
Spanish	**1223301**	1 Credit

In level III, students expand their listening, speaking, reading, and writing skills as they create with the language and access a variety of authentic materials on generally familiar topics. Students communicate ideas orally and in writing using past, present, and future timeframes. They identify main idea(s) and some details. They initiate and engage in higher levels of discourse as they narrate, describe, compare and summarize using groups of related sentences and short cohesive passages. Students recognize significant differences in behaviors exist among cultures and interact with others using language and behaviors appropriate to the target culture(s). Students apply their knowledge and skills inside and outside of the classroom setting. A final exam will be administered at the conclusion of the course. **PRE**: *Level II of same language* (Note: Chinese available only at RSHS)

Honors Level IV: FE

Chinese, French, Spanish

Chinese	**1234301**	1 Credit
French	**1206301**	1 Credit
Spanish	**1226301**	1 Credit

Students communicate in writing and in extended conversations on a variety of familiar and some unfamiliar topics. They begin to narrate, discuss, and support fairly complex ideas and concepts using concrete facts and details in a variety of timeframes. Many different types of authentic text (short stories, poetry, excerpts from various periods of literature, and current events) are included. Finer points of grammar are studied to aid oral and written communication; however, grammar is not over-emphasized at the expense of communication. There is more in-depth study of the target culture(s) and their influence throughout the world. Students have a greater understanding of the target culture's perspectives and are able to interact with others in and out of the classroom setting using culturally appropriate behaviors. Students at this level participate in the AAPPL Measure to determine proficiency level attainment and potentially earn the Maryland Seal of Biliteracy. **PRE:** *Level III of same language* (Note: Chinese available only at RSHS)

AP Language and Culture: $

Chinese, French, Spanish

Chinese	**1251302**	2 Credits
French	**1250302**	2 Credits
Spanish	**1254302**	2 Credits

The AP Language and Culture course emphasizes communication by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations. This includes vocabulary usage, language control, communication strategies and cultural awareness. The AP Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. Student explore culture in both contemporary and historical contexts and develop awareness and appreciation of cultural products, practices, and perspectives. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. **PRE:** *Level IV of same language*

Heritage or Native speakers: If you use the language at home, please ask for a placement assessment prior to registering. Most native and heritage speakers perform well in levels III, IV, and AP.

Seal of Biliteracy: This is a state award that recognizes a student's high level of proficiency in listening, speaking, reading and writing in one or more languages in addition to English. To be eligible for a Seal of Biliteracy, a student must 1) pass the Maryland High School Assessment in English 10 and 2) score Intermediate High Proficiency or equivalent on an approved world language assessment. Assessments are typically taken at the end of level IV and AP. For more information, contact your school's Seal of Biliteracy Liaison.

Physical Education & Health Education

Aerobic Conditioning RC

0804005 1/2 Credit Grades 10-12

This course involves such activities as aerobic dance, step aerobics, and a variety of new and exciting aerobic activities. This program improves the student's level of cardiovascular fitness, muscular endurance, flexibility, and body composition. Students are given opportunities to design and practice their own routines and programs. **PRE:** *Personal Fitness*

Advanced Fitness Training RC

0808001 1 Credit Grades 10-12

This course is designed for the more serious weight lifter/athlete. This program is designed to enhance performance by increasing strength/speed/agility and cardiovascular fitness. A variety of rigorous activities will be incorporated throughout the course to reach the desired goals. **PRE:** Teacher Approval Required

Contemporary Health Issues

0898005 1/2 Credit Grades 11-12

This course helps students evaluate and process current health information, and make informed decisions about health behavior. A unit on Family Life and Human Development is included in this course. **PRE:** *Health Education II*

Fitness Walking RC

0805005 1/2 Credit Grades 10-12

This course involves a regular program of aerobic activity involving walking/running/jogging. Students learn the principles of pacing, interval training, speed development, injury prevention, and plyometrics. This is augmented by flexibility, muscle strength, and endurance activities two days per week. Students design an individual fitness program which allows them to reach their personal goals. **PRE:** *Personal Fitness*

Health Education I

0803305 1/2 Credit Grades 9-10

This course provides basic instruction in self-esteem, health care products and resources, promotion of safe living, human growth and development, and disease and drug prevention. This course and successful completion of the service learning project contained in it are requirements for graduation.

Health Education II

0804305 1/2 Credit Grades 10-12

Community health is the focus of this course. Students apply the knowledge gained from Health Education I to develop an understanding of major health concepts and issues in their surroundings. Topics covered include: nutrition, growth & development, consumer health, environmental health, injury prevention, and disease prevention. This course is a requirement for graduation. **PRE:** *Health Education I*

Life Stages

0908001 1 Credit Grades 10-12

This course focuses on the various stages of life, from birth through the senior years. Emphasis is placed on theories of physical, cognitive and psycho-social development, the effects of heredity and the environment, the role of caregivers and the family, the role and challenges of parenting, health and safety concerns, and contemporary issues. Students explore special challenges present at each stage. Students may have opportunities to observe various life stages. Students begin to develop the components of a working portfolio to be assembled upon completion of the class.

Lifetime Activities/Self-Awareness RC

0802305 1/2 Credit Grades 10-12

0802301 1 Credit Grades 10-12

This course is designed to increase the ability and skill of students to recognize and respond appropriately to situations which may be threatening or harmful to their well-being. Numerous activities which lead to promoting and maintaining lifetime fitness are also explored. Throughout the course, students learn to transfer the bio-mechanical principles of movement to different situations and to a variety of lifetime activities. Students determine the types of exercises and activities that they will use to remain physically active and healthy throughout their lives. All students have the opportunity to participate in self-awareness simulations. Various lifetime activities in this course may include: tennis, golf, bowling, soccer, table tennis, volleyball, roller-blading, etc. **PRE:** *Personal Fitness*

Personal Fitness

0800005 1/2 Credit Grade 9

This course engages students in classroom and lab activities to assess and improve individual fitness levels, to establish habits of a wellness lifestyle, and to develop a personal fitness program based on the principles of health-related fitness. This course is a requirement for graduation.

Physical Education 10

0801004 1/4 Credit Grade 10
0801005 1/2 Credit Grade 10

This course helps students apply personal fitness concepts through a variety of exercise programs and activities including fitness based games and circuit training. Students will also create and play health enhancing games of their own design. **PRE:** *Personal Fitness*

Strength & Conditioning RC

0807005 1/2 Credit Grades 10-12
0807001 1 Credit Grades 10-12

This course provides an introduction to resistance activities emphasizing weight training. Students participate in and design programs to improve muscular strength and endurance. Students are also involved in activities to improve cardiovascular fitness and flexibility. **PRE:** *Personal Fitness*

Drivers Education

CCPS offers the opportunity for students (Grade 10 only) to take the classroom portion of Drivers Education during the school day. Students will be enrolled in the course during one marking period in lieu of .25 physical education credit. This course is offered through a third party driving school. Students will register and make payment for the Drivers Education course through the third party that is contracted with the local high school. Students are required to meet attendance and age requirements set by the Maryland Vehicle Administration.

Behind the wheel training is NOT a part of the course but is available for students through the agency providing the training. CCPS does not grant credit for this course.

Science

Students are required to earn three credits of organized instruction which includes a laboratory component engaging in the application of the science and engineering practices, the crosscutting concepts, and disciplinary core ideas including Earth & Space science, life science (Biology required), physical science (Chemistry and Physics), engineering, and technology, aligned to the Maryland High School Assessment for science. Students interested in science-based careers are recommended to take additional science courses and/or participate in the Science, Technology, Engineering, and Mathematics (STEM) Academy.

Earth & Space Science
• Earth & Environmental Systems • Chemistry (Honors and AP) • AP Environmental Science • Physics (Honors) • AP Physics 1 and 2 • AP Physics C: Electricity & Magnetism and Mechanics

Life Science
• Biology (Honors and AP)

Physical Science
• Physical Science w/ Applications in Biology • Chemistry (Honors and AP) • Physics (Honors) • AP Physics 1 and 2 • AP Physics C: Electricity & Magnetism and Mechanics • Applied Science at CCST

Earth and Environmental Systems

0918301 1 Credit Grades 9-12

This course is designed to encourage students to analyze and ask questions about the interconnected systems that make up the environment on earth. Students will investigate the universe, cycles and processes, energy flow, climate change and human impact on our environment. Students will define problems related to ecology and conservation methods to evaluate and design solutions in our local environment especially in regards to the Chesapeake Bay watershed.

AP Environmental Science $

0933302 2 Credits Grades 9-12

This course provides college-level instruction in a secondary school setting. A college-level textbook and materials are used, and there is a rigorous laboratory component. At least seven to ten hours per week of outside class preparation is expected. The following themes provide a foundation for the structure of this course: earth systems; ecosystems; populations; land and water use; energy resources; pollution; environmental problems and human survival. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course.

Biology **LS MISA** **EOC**

0905301 1 Credit Grades 9-12

In this course, students demonstrate their ability to use science and engineering practices, crosscutting concepts to master the disciplinary core ideas of life science. Students will work to understand the uniqueness and interdependence of living organisms, their interaction with the environment and the continuation of life on earth. Laboratory investigations are a vital part of this course. One (1) credit in biology is required for graduation.

Honors Biology **LS MISA** **EOC**

0906301 1 Credit Grades 9-12

In this course, students demonstrate their ability to use scientific skills and processes, as well as major biological concepts, to explain the uniqueness and interdependence of living organisms, their interactions with the environment, and the continuation of life on earth. Major topics studied include the chemistry of life, cell structure and processes, genetics, change over time, and ecology. This course involves a high degree of academic rigor. Students are expected to demonstrate, by engaging in high level laboratory and research investigations, the ways of thinking and acting that are inherent in the practice of science. High-level problem solving and analytical skills are a must for success in this course. One (1) credit in biology is required for graduation.

AP Biology $

0930302 2 Credits Grades 10-12

This course provides college-level instruction in a secondary school setting. A college-level textbook and materials are used, and there is a rigorous laboratory component. Seven to ten hours a week in out-of-class preparation is expected. Major topics presented include: biological chemistry, molecules and cells, genetics and evolution, and organisms and populations. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. **PRE:** *Biology or Honors Biology, Chemistry or Honors Chemistry, and Algebra II or Honors Algebra II*

Physical Science with Applications in Biology

0921301 1 Credit Grades 11-12

In this course students demonstrate their ability to use science and engineering practices, crosscutting concepts to master the disciplinary core ideas of physics and chemistry. Students will explore the concepts through phenomenon based projects. These will include epidemiology, chemical reactions, corrosion and collisions. Laboratory investigations are a vital part of this course.

Chemistry

0907301 1 Credit Grades 10-12

In this course, students demonstrate their ability to use science and engineering practices, crosscutting concepts to master the disciplinary core ideas of chemistry. Students will explore matter, its properties and structure, and changes that can occur in its structure and composition. Students will explore the chemistry of the Earth Space System. Laboratory investigations are a vital part of this course.

Honors Chemistry **FE**

0908301 1 Credit Grades 9-12

In this course, students demonstrate their ability to use scientific skills and processes to explore matter, its properties and structure, and changes that can occur in its structure and composition. This course involves a high degree of academic rigor. Students are expected to demonstrate, by engaging in high level laboratory and research investigation, ways of practical thinking and acting that are inherent in the practice of science. High-level problem solving and analytical skills are a must for success in this course. A final exam will be administered at the conclusion of the course. **REC:** *Completion of or concurrent enrollment in Algebra II or Algebra IIB or Honors Algebra II*

AP Chemistry $

0931302 2 Credits Grades 11-12

This course provides college-level instruction in a secondary school setting. A college-level textbook and materials are used, and there is a rigorous laboratory component. At least seven to ten hours per week of outside class preparation is expected. Major topics presented include structure of matter, states of matter, chemical reactions and stoichiometry, chemical equilibrium and kinetics, and thermodynamics. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. **PRE:** *Chemistry or Honors Chemistry*

Physics

0910301 1 Credit Grades 10-12

In this course, students demonstrate their ability to use science and engineering practices, crosscutting concepts to master the disciplinary core ideas of physics. Major topics include motion, forces, energy, waves, sound, light, electricity and magnetism as well as applications of physics to the earth/space system. Laboratory

investigations are a vital part of this course. **PRE:** *Completion of or concurrent enrollment in Algebra II or Honors Algebra II or Algebra IIB*

Honors Physics FE

0910601 1 Credit Grades 10-12

In this course, students demonstrate their ability to use scientific skills and processes to explain the interaction of matter and energy, and the energy transformations that occur. Major topics studied include forces, motion, waves, sound, light, electricity, and magnetism. This course involves a high degree of academic rigor. Students are expected to demonstrate, by engaging in high level laboratory and research investigation, ways of practical thinking and acting that are inherent in the practice of science. High-level problem solving and analytical skills are necessary for success in this course. A final exam will be administered at the conclusion of the course. **PRE:** *Completion of or concurrent enrollment in Algebra II or Honors Algebra II or Algebra IIB*

AP Physics 1: Algebra-Based $

0935302 2 Credits Grades 10-12

This course is an Algebra-based, introductory level college physics course that explores Newtonian mechanics; rotational motion; work, energy, power; wave mechanics; and simple electric circuits. Through inquiry based learning, students will develop critical thinking and reasoning skills. No prerequisite course work in physics is required to take this course. A college-level textbook and materials are used, and the course includes a rigorous laboratory component. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. **PRE:** *Completion of or concurrent enrollment in Algebra II or Honors Algebra II or Algebra IIB*

AP Physics 2: Algebra-Based $

0936302 2 Credits Grades 11-12

This course is algebra-based, introductory level college physics course that explores fluid dynamics, thermodynamics, PV diagrams and probability, electrostatics, electric circuits with capacitors, electromagnetism, optics, quantum physics, atomic physics, and nuclear physics. Through inquiry based learning, students will develop scientific critical thinking and reasoning skills. No prerequisite work in physics is required to take this course. A college-level textbook and materials are used, and the course includes a rigorous laboratory component. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. **PRE:** *Completion of or concurrent enrollment in Algebra II or Honors Algebra II or Algebra IIB*

AP Physics C: Electricity and Magnetism $

0937302 2 Credits Grades 11-12

This course provides college-level instruction in a secondary school setting. A college-level textbook and materials are used, and there is a rigorous laboratory component. Extensive outside of class preparation is expected to meet the demands of this course. The course concentrates on the study of electricity and magnetism using principles of calculus. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course. This course will develop critical thinking skills and use introductory differential and integral calculus. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. **PRE:** *Physics or Honors Physics and Trig/Functions/Statistics, Honors Trig/Functions /Statistics, Precalculus, Honors Precalculus, Honors Calculus, or AP Precalculus*

AP Physics C: Mechanics $

0934302 2 Credits Grades 11-12

This course provides college-level instruction in a secondary school setting. A college-level textbook and materials are used, and there is a rigorous laboratory component. Extensive outside of class preparation is expected to meet the demands of this course. The course concentrates the study of mechanics using principles of calculus. This course provides instruction in the following areas: kinematics; Newton's laws of motion; dynamics; work, energy and power; momentum; circular motion and rotation; gravitation and oscillation. This course will develop critical thinking skills and use introductory differential and integral calculus. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. **PRE:** *Physics or Honors Physics and Precalculus, Honors Precalculus, or AP Precalculus*

Honors Anatomy & Physiology FE

0901301 1 Credit Grades 11-12

In this course, students demonstrate their ability to use scientific skills and processes to explore the structural and functional organization of the human organism. Initial emphasis will be on the concepts of homeostasis and levels of organization. This is followed by a study of the human

organ systems. A final exam will be administered at the conclusion of the course. **PRE:** *Biology or Honors Biology and Chemistry or Honors Chemistry*

Zoology
0912601 1 Credit Grades 11-12
Zoology is the study of the animal kingdom. The focus of study is on the internal and external anatomy of representative specimens of the major animal phyla. An understanding of how animals have adapted to various systems to meet survival needs is developed. Zoology requires several dissections to examine body systems in different organisms. **PRE:** *Biology or Honors Biology*

Service Learning

See "Service Learning Requirement" on page 2 of this guide or contact your school counselor for more information regarding this requirement.

Service Learning **P/F** **RC**
0560300 0 Credit Grades 11-12
0560305 1/2 Credit Grades 11-12
0560301 1 Credit Grades 11-12
This program provides the opportunity to earn elective credit while working on an approved service learning activity. Students receive classroom instruction focusing on interpersonal communication skills, advocacy programs, social opportunities, time management skills, and career exploration. Students select a site(s) and complete their service learning requirement in a direct service model. Satisfactory service completed in this program fulfills the service learning graduation requirement. Students are encouraged to earn meritorious service hours in their communities upon completion of the graduation requirement. Only one (1) service learning credit may be earned in the junior or senior year. Additional Service Learning classes will receive zero (0) credit.

Social Studies

Students must earn four (4) social studies credits during grades 9-12. It is recommended that students take one (1) social studies course per year. In addition to the state required courses of Government, World History, and US History, all students must successfully complete a course in Introduction to Personal Finance.

Government **MCAP** **EOC**
1000301 1 Credit Grade 9
1000311 1 Credit Grade 9
This course provides students with the understandings necessary for active citizenship in a culturally diverse democratic society. Students will use an inquiry approach through extensive reading of source documents and technical writing to study the historical foundations of United States government, its institutions, functions, responsibilities, and impact on citizens. Students will understand the role and responsibilities of citizenship toward ensuring the continuation of the American way of life. In addition, students are introduced to the concept of world interdependence and the influence of our nation in world affairs.

Honors Government **MCAP** **EOC**
1001301 1 Credit Grade 9
This course includes all the skills and understandings included in Government; however, more rigorous instruction and independent study are to be expected. Outside class reading and writing assignments with follow up requirements will occur.

AP United States Government and Politics $
1020002 2 Credits Grades 9-12
This course provides college-level instruction in a high school setting. In this political science course, students will demonstrate an understanding of the underpinnings of democracy; political beliefs and behaviors; political parties and interest groups; institutions of governments; public policy and civil liberties. Through inquiry, students will read extensively from primary and secondary source documents and practice technical writing to prepare for the AP exam. Outside class reading and writing assignments with follow up requirements may occur. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course.

World History
1002301 1 Credit Grade 10
This course provides students with an understanding and appreciation for the historical development of world societies beginning with the regional empires starting in the 1300's to the modern era. Students will use an inquiry approach through extensive reading of source documents and technical writing to study the intellectual, cultural, economic, and geopolitical trends that have influenced the modern world. Cultural geography and multinational

interdependence are primary focal points of this course along with the historical perspectives of each era studied.

Honors World History

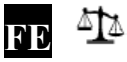
1003301 1 Credit Grade 10

This course provides the same skills and understandings included in World History; however, more rigorous instruction and independent study are to be expected. Outside class reading and writing assignments with follow up requirements will occur.

United States History

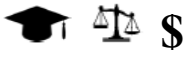
1004301 1 Credit Grade 11
1004311 1 Credit Grade 11

This course introduces students to the history of the United States from the Progressive response to industrialization through the early 21st century. Students will use an inquiry approach through extensive reading of source documents and technical writing to study the political, economic, social, geographic, and cultural developments that helped the United States become a world leader.

Honors United States History 

1005301 1 Credit Grade 11
1005311 1 Credit Grade 11

This course provides the same skills and understandings included in United States History; however, more rigorous instruction and independent study are to be expected. Outside class reading and writing assignments with follow up requirements will occur. A final exam will be administered at the conclusion of the course.

AP United States History 

1021302 2 Credits Grades 10-12

This course provides college-level instruction in a high school setting. Students study the full scope of American history from 1492 through the present day. Students study the political, economic, social, geographic, and cultural developments that helped the United States become a world leader. Through inquiry, students read extensively from primary source documents and practice technical writing to prepare for the AP U.S. History exam. Outside class reading and writing assignments with follow up requirements will occur. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course.

Contemporary World Studies

1006301 1 Credit Grades 11-12
1006311 1 Credit Grades 11-12

This course introduces students to cultural elements to understand the interactions of people in a global society. Students will use an inquiry approach through extensive reading of source documents and technical writing to gain an understanding and respect for the values, customs, and views of world cultures in order to better appreciate America's role as a world leader and how global events impact the citizens of the United States.

Introduction to Personal Finance

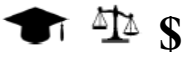
1008301 1 Credit Grades 11-12

Students will investigate a wide variety of concepts to help them manage their financial future. Students will learn to develop goals, create spending plans, manage earnings, navigate credit and debt, make informed financially responsible decisions, and learn ways to save and invest to achieve long-term financial goals.

Honors Intro to Personal Finance

1008501 1 Credit Grades 11-12

This course provides the same skills and understandings included in Introduction to Personal Finance; however, more rigorous instruction and independent study are to be expected. Outside class reading and writing assignments with follow up requirements will occur. A final exam will be administered at the conclusion of the course.

AP Human Geography 

1010002 2 Credits Grades 10-12

This course provides college-level instruction in a high school setting. Human Geography is the study of where humans and their activities and institutions such as ethnic groups, cities, and industries are located and why they are there. By analyzing geography, population, cultural patterns, organization of space, land use, industrial and economic development students will gain a better understanding of the world they live in. Through inquiry, students will read extensively from primary and secondary source documents and practice technical writing to prepare for the AP exam. Outside class reading and writing assignments with follow up requirements will occur. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course.

Psychology

1009701 1 Credit Grades 11-12
1009711 1 Credit Grades 11-12

Using an inquiry approach to learning, students learn about the biological, sociological, environmental, and cultural influences on human behavior. Understanding that human behavior is a combination of many factors, students are able to understand how people cope with the many frustrations, conflicts, and problems associated with living in a modern society.

AP Psychology $

1024302 2 Credits Grades 10-12

This course provides college-level instruction in a high school setting. Using an inquiry approach to learning, students are introduced to the methods psychologists use when studying the behavior of humans and animals. Facts, principles, and phenomena of each major sub-field within psychology are explored. Outside class reading and writing assignments with follow up requirements will occur. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course.

Student Support & Services

AVID

0570001 1 Credit Grade 9
0580001 1 Credit Grade 10
0590001 1 Credit Grade 11
0510001 1 Credit Grade 12

AVID Elective provides academic, social and emotional support to help students succeed in rigorous high school courses and to prepare for and succeed in college. Students participate in activities that familiarize them with college experiences and expectations. This program targets students who have the desire to attend college but may need extra support in the college preparation and application processes. Students must apply to and be accepted in the AVID Program in 9th grade and maintain the required GPA.

Career and Academic Success RC P/F

1170001 1 Credit Grades 9-12
1170000 0 Credit Grades 9-12

This class supports special education students so that they graduate on time with a viable career plan in place. Students are supported in passing their classes through homework/classwork support, organization, time management, test taking skills in addition to addressing a variety of individual needs. Students may use this class to meet extra time accommodations, Grade Recoup, and/or Credit Recovery. In addition, students will work on career and financial literacy goals to meet IEP and career readiness requirements. Students may only earn two (2) elective credits towards the 25 credit requirement.

Learning for Independence (CCST only)

1130000 0 Credit Grade 12

This course provides students ages 18-21, working towards a Maryland High School Certificate by following alternate outcomes, the opportunity to develop a range of skills that will lead to supported community-based employment and life skills necessary to function independently in the community. The program provides opportunities for students to apply independent skills within functional academics, community, vocational, independent arts, and consumer math. Course is currently offered in age appropriate setting.

Support Hall

0592000 0 Credit Grades 10-12
0592010 0 Credit Grades 10-12

Support Hall is a class that provides students an opportunity to pursue credit recovery efforts or receive support for on-going academic efforts such as, but not limited to, independent study, and appropriate assistance. Students in support hall receive on-going support from teachers, administrators, mentors, counselors, and other professionals.

Transitional English P/F RC DLM

1130100 0 Credit Grades 9-12

This course provides students, who are following alternate outcomes and working toward a Maryland High School Certificate, instruction in vocabulary, reading comprehension, and writing within real-world applications. Students will read and comprehend a variety of texts related to personal management, community, recreation/leisure, career vocational, and communication/ decision-making/ interpersonal skill development. Focus will be on aligning the reading targets to the student's individual Transition Plan.

Transitional Math P/F RC DLM

1130200 0 Credit Grades 9-12

This course provides students, who are following alternate outcomes and working toward a Maryland High School Certificate, instruction in money management, time management, classification and measurement skill development within real-world applications. Students will solve mathematical problems in daily life situations related to personal management, community, recreation/leisure, career vocational, and communication/ decision-making/ interpersonal skill development. Focus will be on aligning the math targets to the student's individual Transition Plan.

Transitional Science P/F RC DLM

1130300 0 Credit Grades 9-12

This course provides students, who are following alternate outcomes and working toward a Maryland High School Certificate, instruction in healthy life choices, such as proper nutrition and personal hygiene, family life issues, and following proper safety guidelines throughout daily activities within real-world applications. Students will

solve problems in daily life situations related to personal management, community, recreation/leisure, career vocational, and communication/ decision-making/ interpersonal skill development. Focus will be on aligning the science related targets to the student's individual Transition Plan.

Transitional Career Readiness **P/F** **RC**

1130400 0 Credit Grades 9-12

This course provides students, who are following alternate outcomes and working toward a Maryland High School Certificate, instruction in the necessary skills required to be successful in the work setting. Instructional activities and work experiences are conducted within the school, community, and/or work environment. Students will explore potential employment opportunities as outlined in their Transition Plan within the IEP. Employability skill development in personal management, community, recreation/leisure, career vocational, and communication/ decision-making/ interpersonal skills will be addressed through real-life situations**.**

Student Transition & Employability Program (STEP) (CCST only)

1130102 2 Credits Grades 11-12

The Student Transition and Employability Program provides selected students with an opportunity to develop a range of employability skills within school and community work-based settings. Skill focus will include workplace skills, customer service, hospitality, food safety, communication, technology, transportation, financial management and merchandising.

Diploma bound students in STEP will receive credits for the following courses:

Guest Services & Hospitality Professional I

0124001 1 Credit Grade 11-12

Guest Services & Hospitality Professional II

0122202 1 Credit Grades 11-12

Career Connected Learning I

0122303 1 Credit Grade 12+

Career & Technical Education (CTE) Programs and Courses

Apprenticeship Maryland Program (AMP)

CCPS Maryland Youth Apprenticeship Program brings Cecil County youth and employers together to create skilled labor in today's ever-changing job market. Apprenticeship Maryland is designed to prepare students for sustainable employment and further education based on career pathways in Manufacturing and Science, Technology, Engineering, and Mathematics (STEM) related fields as well as traditional occupations. Students are placed with approved employers who assign a qualified mentor who provides guidance and on-the-job training. The program offers a unique opportunity to "earn and learn."

Benefits of Youth Apprenticeship

- Enter the workforce while still in high school.
- Earn a salary.
- Earn high school credit for completing the program - up to 4 credits.
- Lead to a completer in CTE Pathway.
- Gain marketable industry skills.
- Discover whether a certain industry is a good fit, saving time and money in pursuing costly higher education or technical training after high school.
- Advantage over other candidates as they develop valuable career skills and a professional network.
- Gain confidence and self-assurance by working independently under the tutelage of a mentor.
- Receive a Maryland State Skill Certificate by meeting all the State program standards.

General Requirements

1. Student applicants must be juniors or seniors, age 16 years or older, and have reliable transportation.
2. Applicants must be students in good standing and on track to graduate with good grades and attendance.
3. Students must obtain employment at an eligible employer.
4. At least Maryland minimum wage must be paid.
5. A student must submit a complete application packet to Apprenticeships@ccps.org.
6. Students must complete 450 hours of work-based training and one year of related classroom instruction by graduation.
7. A student must complete the program by graduation from high school.
8. One year of related instruction is required. That will be provided by the business or a class you are taking for credits concurrently while in the apprenticeship.

Application Process

- See your Counselor for an application packet
- Download "Student Agreement": https://bit.ly/AMP-CCPS or see your School Counselor for application

Submit your completed application to Apprenticeships@ccps.org

Apprenticeship may take the place of the final course in the student's CTE program.

Advanced Technology Education CTE Program

Advanced Tech II (Through Class of 2028)

0148501 1 Credit Grades 10-12

Students will gain a deeper understanding of the design process and how it relates to construction and manufacturing processes. Students will utilize both computer and production labs to engage in solving real-world problems through individual and group activities. Students will be exposed to both residential and commercial building practices along with the manufacturing production processes of today's world. Students will be prototyping using 3D printing, CNC routers, and laser engravers. All students enrolled in this course are required to complete the OSHA 30 modules and exam. **PRE:** *Advanced Tech I*

Advanced Tech III (Through Class of 2028)

0148601 1 Credit Grades 10-12

This course will finalize the technical skill set necessary for successful completion of the On-Shape industry-based examination. The course is standards-based, with engineering- elated curricula designed for upper-level high school students. Students will acquire an engineering and technical base that prepares them for entry into the workforce as a technician or skilled generalist, or to continue studies at a local community college. Students will select, evaluate, and use diverse data to make informed decisions about their design or solution and communicate their analysis and solution to diverse audiences, while using a variety of platforms and materials. **CO:** *Advanced Tech II*

Advanced Tech Apprenticeship (Through Class of 2028)

0148701 1 Credit Grades 11-12

This course can be taken in place of Advanced Tech III to meet the graduation requirement. Students participating in this class will work in a professional setting that allows them to apply the skills and knowledge acquired from their previous coursework. The steps for the Apprenticeship Maryland Program listed on page 50 must be followed. The apprenticeship includes a minimum of 150 hours. The apprenticeship must align with the Advanced Tech Curriculum, subject to approval by the apprenticeship coach. **CO:** *Advanced Tech II*

Apprenticeship Maryland CTE Program

Apprenticeship I (Through Class of 2027)

0110001 1 Credit Grades 11-12

The first part of a work-based learning experience which takes place at a work-site and must be a paid experience (at least minimum wage). All three parts of Apprenticeship experience must cumulate to a minimum of 450 hours. This experience is directed by the Apprenticeship Agreement provided by the school system and a student work plan developed among the student, Apprenticeship Coordinator, and eligible employer. Application Required (see page 50 for details)

Apprenticeship II (Through Class of 2027)

0111001 1 Credit Grades 11-12

The second part of a work-based learning experience which takes place at a work-site and must be a paid experience (at least minimum wage). All three parts of Apprenticeship experience must cumulate to a minimum of 450 hours. This experience is directed by the Apprenticeship Agreement provided by the school system and a student work plan developed among the student, Apprenticeship Coordinator, and eligible employer. **PRE**: *Apprenticeship I*

Apprenticeship III **RC**

(Through Class of 2027)

0111101 1 Credit Grades 11-12

The third part of a work-based learning experience which takes place at a work-site and must be a paid experience (at least minimum wage). All three parts of Apprenticeship experience must cumulate to a minimum of 450 hours (subject to a reduction in hours). This experience is directed by the apprenticeship agreement provided by the school system. The student will be working on the competencies, duties, tasks and outcomes in academic, technical, and workplace readiness areas that apply directly to the student's goals for a specific work-related placement. **PRE**: *Apprenticeship I and II*

Business, Management, & Finance – Marketing CTE Program

Principles of Business Management and Entrepreneurship

0108401 1 Credit Grades 9-11

This course provides a foundational understanding of the role of business in a global society, American business as a dynamic process, and forms of business ownership, including management concepts, marketing, production and distribution, and accounting and finance. Along with a brief historical perspective, business terminology and principles will be emphasized. Students will learn to analyze the functions of business through evaluating, planning, organizing, and controlling. Students will develop the communication skills that will be necessary for success in the workplace and college. Students will be expected to think analytically; improve written and oral communication skills; enhance listening and questioning skills; learn and practice the art of conversation; improve public speaking skills; broaden their awareness of career options; practice using teamwork to make decisions and solve problems; and learn why interpersonal and networking skills can help them succeed. Students will also be taught the necessary MS Word skills in application and relevance in the business world.

Principles of Accounting and Finance

0108501 1 Credit Grades 10-12

This course provides students with the knowledge necessary to manage and maintain a company's financial resources in daily operating decisions. A mastery of fundamental accounting concepts, skills, and competencies is essential to making informed business decisions. Students will learn to apply generally accepted accounting principles to determine the value of assets, liabilities, and owner's equity as they apply to various forms of manual and computerized systems for service and merchandising business. Students will apply appropriate accounting principles to payroll and tax liabilities. Students will learn to apply these concepts using MS Excel. Students will identify positions and career paths in the field of accounting and will examine the roll of ethics and social responsibility in decision making. **CO:** *Principles of Business Management & Entrepreneurship.*

Introduction to Marketing

0108601 1 Credit Grades 10-12

This course introduces students to the essential concepts of marketing theory and to the foundations, functions, and benefits of marketing in a free enterprise system. Throughout the course students will use and incorporate technologies to conduct research and communicate. In addition, students will investigate the various and ever-improving alternatives for electronic marketing. Students will understand and demonstrate strong interpersonal skills and develop an appreciation of human diversity. By the end of the course, students will have a solid understanding of the many diverse career opportunities in the field of marketing. **PRE:** *Principles of Business Management & Entrepreneurship.* **CO:** *Principles of Accounting & Finance.*

Honors Advanced Marketing and Entrepreneurship Capstone

0108701 Credit Grades 11-12

This course is designed to be the second of two sequential marketing courses. This course builds on all of the concepts studied in Introduction to Marketing by giving the students in-depth, comprehensive project-based learning opportunities. Students will apply their understanding of consumer buying behavior and relationships; the tools and techniques used by organizations that identify the factors that influence marketing strategy decisions; market segmentation and target marketing; and other considerations in order to create a written professional marketing plan. Throughout the course, students will use strong interpersonal skills and corporate technologies when conducting primary and secondary research. In addition, students will include alternatives of electronic and internet marketing within their marketing plan. Students will create and/or use a marketing information system(s) when working with or collecting data. Students will integrate their knowledge of legal issues, ethics, diversity and social responsibilities in developing their marketing plan. ***Not required for the CTE Program, but can be used as an elective.*** **PRE:** *Principles of Business Management & Entrepreneurship; Principles of Accounting and Finance; Introduction to Marketing*

Hospitality and Tourism Management CTE Program

Principles of Hospitality and Tourism

0171601 1 Credit Grades 9-11

This course provides an introduction to the Hospitality and Tourism Industry. Students develop and demonstrate skills in food preparation techniques and safe and sanitary conditions. They will develop a broad understanding of the variety of career options available in the hospitality and tourism industry.

Hospitality and Tourism Management

0171701 1 Credit Grades 10-12

This course provides students with broad-based learning on the tasks, knowledge, and skills required by anyone wishing to build a career within the hospitality and tourism industry. The second course focuses on the leadership and managerial knowledge, skills, and abilities required for advancement in a management track in the hospitality and tourism industry. All Students enrolled in this class are required to take the ServSafe Exam. **PRE:** Principles of Hospitality and Tourism

Hospitality and Tourism RC
Work Based Learning Experience

0171801 1 Credit Grades 11-12

Students participating in this class will work in a professional setting that allows them to apply the skills and knowledge acquired from their previous coursework. The apprenticeship includes a minimum of 150 hours. The steps for the Apprenticeship Program listed on page 50 should be followed. Students unable to participate in an apprenticeship will be allowed to complete an online simulation that draws on industry experts to model the inner workings of a hotel. **CO:** *Hospitality & Tourism Management*

Biomedical Sciences CTE Program

This program is taught at Perryville High School (PHS). See page 71 for course descriptions.

Computer Science CTE Program

Computer Science Essentials TE

0146501 1 Credit Grade 9-12

This course is an excellent entry point for computer science learners. The course introduces students to coding fundamentals through an approachable, block-based programming language where they will have early success in creating usable apps. As students sharpen their computational thinking skills, they will transition to programming environments that reinforce coding fundamentals by displaying block programming and text based programming style side-by-side. Finally, students will learn the power of text-based programming as they are introduced to the Python® programming language. The course engages students in computational thinking practices and collaboration strategies, as well as industry standard tools authentic to how computer science professionals work. Students will learn about professional opportunities in computer science and how computing can be an integral part of all careers today. Students will take a PLTW End of Course Assessment.

AP Computer Science Principles $

0146502 2 Credits Grade 9-12

This course aims to develop computational thinking, generate excitement about career paths that use computing, and introduce professional tools that foster creativity and collaboration. The course also aims to build students' awareness of the tremendous demand for computer specialists and for professionals in all fields who have computational skills. Each unit focuses on one or more computationally intensive career paths. The course aims to engage students to consider issues raised by the present and future societal impact of computing. Students use Python® as a primary tool and incorporate multiple platforms and languages for computation. Students practice problem solving with structured learning experiences and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Problems for ground-level entry with no ceiling so that all students can successfully engage the problems. Students will take both the AP Computer Science Principles Exam and PLTW End of Course Assessment. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course.

REC: *Computer Science Essentials*

AP Computer Science A $

146602 2 Credits Grades 9-12

This course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. Students will take the AP Computer Science A Exam and PLTW End of Course Assessment. To earn an AP weighted high school credit, students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. **REC**: *Computer Science Essentials.*

AP Cybersecurity $

0146702 2 Credits Grade 10-12

This course offers a broad introduction to the field and aligns closely with a college-level, introductory cybersecurity course. Students learn about common threats and vulnerabilities and how they combine to create risk. Students study how individuals and organizations manage risk and how risk can be mitigated through a defense-in-depth strategy. Students explore specific vulnerabilities, attacks, mitigations, and detection measures across a variety of domains, including physical spaces, computer networks, devices, and data and applications. Throughout the course, students consider the impact of cybersecurity on individuals, organizations, societies, and governments. Content and skills taught in the course align with the professional skills outlined in the National Initiative for Cybersecurity Education Workforce Framework. Students will be prepared to take the CompTIA Security+ industry test after completing the course, and they will have the option to do so. This exam fee is approximately $425. **REC:** *Computer Science Essentials*

Junior Reserve Officers' Training Corps (JROTC)

JROTC Leadership Education and Training I (EHS Only)

0160101 1 Credit Grades 9-10

In this course students are introduced to content that will develop leadership skills. Students are exposed to the traditions, organizational structure, and disciplines of JROTC and begin putting into practice customs and courtesies important in the program. Students study personal behavioral preferences, interpersonal skills and abilities, and strategies to help building personal success – in the high school classroom, the JROTC program, and the community. The course introduces Cadets to the discipline and structure of military drill. Students develop and use decision-making skills, identify goals, and address strategies for handling conflict, both internal and with others. Students examine ways to address and manage stress in life.

JROTC Leadership Education and Training II (EHS Only)

0160201 1 Credit Grades 10-12

This course builds upon the mastery of LET 1 skills and abilities, providing Cadets with new and more challenging opportunities in leadership development. Cadets are introduced to the elements of leadership, encouraging the analysis of personal leadership attributes and their relationship to program goals. Cadets examine their own leadership competencies and style and the role they play in teams. The course focuses on the concept of good leaders being effective communicators, with writing, listening, and speaking as essential outcomes. Cadets will begin to see how their strengths relate to their career interests and begin to explore post-secondary options. Students learn the value in making good choices and decisions. Students learn nutrition, body image, and the elements of good health, using decision-making and goal setting in their plans for life-long health. LET II Cadets an opportunity to participate and evaluate the effectiveness of a service-learning project. Citizenship and Government lessons introduce Cadets to the purpose of government and the role of the U.S. Constitution on democracy and the rights of its citizens. **PRE:** *JROTC Leadership Education and Training I*

JROTC Leadership Education and Training III (EHS Only)

0160301 1 Credit Grades 11-12

This course continues and expands the instruction and skills taught in LET I and LET II. Students investigate the functions US Government, civic actions, and political responsibility, and explore the U.S. Army's role in American history. The course continues to develop leadership skills, focusing on decision-making, problem-solving skills, management skills, including goal setting, identification of performance indicators, enhancement of negotiation skills, implementation of processes, span of control, and proper staff procedures, mediation of conflict, project development, and execution. **PRE:** *JROTC Leadership Education & Training II*

JROTC Leadership Education and Training IV (EHS Only)

0160401 1 Credit Grades 11-12

This capstone course reinforces and expands upon the leadership, citizenship, and personal development skills introduced in previous LET courses. Cadets apply advanced leadership principles in authentic settings, assuming increased responsibility for planning, organizing, and supervising battalion operations and events. The course emphasizes the development of senior leadership competencies, including mentoring junior Cadets, managing complex projects, evaluating team performance, and refining personal leadership styles. Cadets analyze global and national issues that influence citizenship, explore the responsibilities of informed civic participation, and examine how ethical decision-making guides leaders in diverse situations. Physical fitness, wellness, and life management strategies are reinforced as Cadets prepare for post-secondary goals. LET IV Cadets are expected to model the highest standards of conduct,

communication, and accountability while demonstrating mastery of JROTC values and serving as role models within the program. **CO:** *JROTC Leadership Education and Training III*

PLTW ®: Pre-Engineering CTE Program

To complete the PLTW® program students must also complete the program at CCST. See page 72

Introduction to Engineering Design **TE**

0153301 1 Credit Grades 9-10

This course develops problem solving skills, with an emphasis on 3-D modeling or solid rendering of an object. Students focus on the application of visualization processes and tools using the Inventor software. The course emphasizes the design-development process of a product and how a model of that product is produced, analyzed, and evaluated using a Computer-Aided Design System. Various design applications are explored with discussion of possible career opportunities.
PRE: *Algebra I*

Principles of Engineering

0152301 1 Credit Grades 10-12
0152311 1 Credit Grades 10-12

This course introduces students to the exciting world of engineering. Students explore how the principles of engineering are used to develop better and safer products and structures. Theoretical and hands-on problem solving and career possibilities are emphasized. **PRE:** *Introduction to Engineering Design*

Residential Construction CTE Program

Introduction to Construction and Safety

0177101 1 Credit Grades 10-11

This hands-on course introduces students to the fundamental skills, tools, and safety practices used in the construction industry. Students learn basic carpentry skills, measurement techniques, blueprint reading, and tool operation, while emphasizing the importance of jobsite safety and teamwork. By the end of the course, students will understand essential construction concepts, demonstrate safe work habits, and be prepared for advanced technical coursework. **REC:** *Foundations of Technology*

Residential Construction Skills I

0177201 1 Credit Grades 11-12

This hands-on course introduces students to the foundational skills, knowledge, and safety practices required for success in the construction industry. Aligned with industry and academic standards, this course emphasizes hands-on learning through projects that develop proficiency in tool use, measurement, blueprint reading, and basic framing techniques. Through classroom instruction and lab projects, students complete the OSHA 30-Hour General Industry Training, earning nationally recognized certification valued by employers and apprenticeship programs. Students apply mathematical, scientific, and technical concepts to real-world construction problems while adhering to OSHA safety guidelines. Students build employability, leadership, and teamwork skills. Topics include construction materials, plan interpretation, wall and roof framing, stair construction, and building envelope systems. Completion prepares students for advanced carpentry coursework, industry certification, and entry-level opportunities in construction and related trades. **PRE:** *Introduction to Construction & Safety*

Robotics

Robotics

0135001 1 Credit Grades 9-12

This hands-on, project-based course introduces students to the world of competitive robotics using the VEX V5 platform. No prior experience is required. Students will learn foundational skills in mechanical design, fabrication, electronics, and coding as they build and program robots capable of completing real competition challenges. Working in teams, students will apply engineering principles, problem-solving strategies, and iterative design thinking as they prepare for official VEX Robotics tournaments throughout the year. Participation in these tournaments is an integral part of the program and may take place beyond normal school hours.

Technology Education

Foundations of Technology **TE**

0140001 1 Credit Grades 9-12

This course explores the application of technical knowledge, tools, and skills needed to solve practical problems. Instruction is centered on problem solving and hands-on activities in the areas of construction, manufacturing, communication, biotechnology, power and energy, and transportation.

Cecil County School of Technology (CCST) Programs

Students from the five comprehensive high schools have the opportunity to continue a CTE program during their junior year by a designated application process. Students are encouraged to develop positive work attitudes while building individual skills for success. Transportation is provided from home schools to and from CCST. Transfer students will be considered on a case-by-case basis and will be based on program availability. Students must pass all courses in the first year of their program of study to be eligible to return for the second year. Students must pass all courses in a program sequence in order to meet graduation requirements.

The following programs are currently offered at the Cecil County School of Technology (CCST):

- Academy of Health Professions - Certified Nursing Assistant
- Academy of Health Professions - Certified Clinical Medical Assistant
- Agricultural Sciences*
- American Culinary Federation - Professional Cooking
- Automotive Technology
- Commercial Vehicle & Heavy Equipment Repair (previously Diesel Technician)
- Construction Trades
- Cosmetology
- Criminal Justice & Law Enforcement Program
- Electrical Trades
- Fire Science/Emergency Medical Services
- Heavy Industrial Maintenance
- Homeland Security & Emergency Preparedness* (For Class of 2027 Only)
- Interactive Media Production*
- IT Networking Academy (Cisco Academy)
- Landscaping & Horticulture Production
- Manual Machining/CNC Programming & Operations
- Plumbing/HVAC Technology
- Project Lead The Way-Biomedical Sciences*
- Project Lead The Way-Pre-Engineering*
- Teacher Academy of Maryland*
- Welding & Metals Technology

**Capstone project required*

These programs are evaluated on an ongoing basis to align the curriculum with current business and industry standards. Learning sites may vary according to program needs (e.g., Autumn Lake Healthcare, Edgewood Area of Aberdeen Proving Ground, and Elkton Nursing Rehabilitation). Prerequisites for these programs are upgraded according to business and industry recommendations. All students are required to sit for their program's industry recognized certification assessment. See course descriptions beginning on page 57 regarding local, state, and national licenses/certifications for each program.

There is a competitive application process for enrollment due to a limited number of spaces available for students per program. Students accepted into the Cecil County School of Technology will have done so either through the merit or lottery process. In programs where the number of applications exceeds the number of seats available, half of the seats will be based on merit - looking at their grades and attendance as well as a non-traditional gender basis of program choice; the other half of the seats will be filled through a lottery process.

The lottery process will be conducted in a public setting at an announced date and location using an electronic randomizer. All applicants will then be notified through their home school counselor.

Merit process based upon:

- All absences in the first three semesters of high school
  - 12 or fewer days = 4 points
  - 13-18 days = 3 points
  - 19-24 days = 2 points
  - 25-30 days = 1 point
  - 31 or more = 0 points
- Application to a program non-traditional to gender = 1 point
- Grade point average earned in the first three semesters of high school
  - A (3.75-4.00) = 8 points
  - A- (3.50-3.74) = 7 points
  - B+ (3.26-3.49) = 6 points
  - B (2.75-3.25) = 5 points
  - B- (2.50-2.74) = 4 points
  - C+ (2.26-2.49) = 3 points
  - C (1.75-2.25) = 2 points
  - C- (1.50-1.74) = 1 point

CCST Apprenticeship Opportunities

Students will now have options on how to complete their CCST Program of Study. Apprenticeships may now take the place of a student's third and/or fourth courses. Placements must be relevant to the student's Core Program. Certification opportunities may vary depending on the program and schedule. Each CCST program is unique and students should see the Youth Apprenticeship Coach at CCST for more details.

Academy of Health Professions: Certified Nursing Assistant

Required supplies: stethoscope, blood pressure cuff, and a watch with a sweep second hand. Students earning a B or higher in all the courses within the program may qualify for articulated college credit. **PRE:** *Algebra I*
Student fees: Exam fees- $160, Materials- $300, Uniforms- $100

L/C

Foundations of Medicine and Health Science
0100501 1 Credit Grade 11
This course provides students with an overview of the therapeutic, diagnostic, environmental and information systems of the healthcare industry. Students will begin to prepare for a medical or health science career by developing a broad understanding of the cluster and pathways in the Health and Biosciences Cluster. Students will study and learn anatomy and physiology. The eleven body systems will be introduced (nervous, endocrine, immune, lymphatic, respiratory, cardiovascular, digestive, renal, reproductive, skeletal, and muscular). Students will learn about ethical and legal responsibilities, as well as the history and economics of healthcare. Students will engage in processes and procedures that are used in the delivery of essential healthcare services. As students learn to use medical terminology within a variety of medical and healthcare environments, they will develop the Skills for Success, academic, and technical skills necessary to function as a health care professional.

Structure and Function of the Human Body
0100502 2 Credits Grade 11
Students in this course study the structure and functions of the human body, including cellular biology and histology. Systematic study involves homeostatic mechanisms of the integumentary, skeletal, muscular, circulatory, nervous systems and special senses. Students will investigate the body's responses to the external environment, maintenance of homeostasis, electrical interactions, transport systems, and energy processes. Students will conduct laboratory investigations, use scientific methods during investigations to solve problems and make informed decisions. Students will learn medical terminology related to body systems.

Certified Nursing Assistant
0100402 2 Credits Grade 12
Students participate in classroom, lab-based, and clinical experiences that prepare them for employment in the acute or long-term care facilities. Students will gain knowledge of medical terms, nursing practices, and the skills necessary to pass the required Certified Nursing Assistant examination. Students will complete the required theory hours (100) set forth by the Maryland Board of Nursing, will understand the role of the CNA, practice infection control, demonstrate how to safely assist patients with mobility and positioning, effectively demonstrate patient hygiene techniques, accurate data collection, understand legal and ethical considerations of being a CNA, and demonstrate competencies in order to pass the written and practical exams to become a CNA.

Clinical Internship Course
0100401 1 Credit Grade 12
This course is designed to give students supervised practical application of previously studied theory. Students must complete 40 hours of skilled nursing experience at a local long term care facility as mandated for certification through the Maryland Board of Nursing. Parents/guardians/students are responsible for transportation to and from the clinical site. Students are required to have a physical exam completed by the beginning of their senior year. In addition, they are required to show proof of the varicella vaccination and the Hepatitis B vaccinations. Prior to clinical, senior year students will be required to obtain a PPD test and flu vaccine. Federal and State background checks are required for certification by Maryland Board of Nursing. Students earning a grade of B or higher in all four courses of the CNA program may receive articulated college credit.

Academy of Health Professions: Certified Clinical Medical Assistant Program

Required supplies: stethoscope, blood pressure cuff, and a watch with a sweep second hand. Students earning a B or higher and qualifying end of course assessment scores in all the courses within the program, may qualify for articulated college credit. **PRE**: *Algebra I* **Student fees:** Exam fees- $165, Materials- $385, Uniforms- $125

L/C

Foundations of Medicine and Health Science

0100501 1 Credit Grade 11

This course provides students with an overview of the therapeutic, diagnostic, environmental and information systems of the healthcare industry. Students will begin to prepare for a medical or health science career by developing a broad understanding of the cluster and pathways in the Health and Biosciences Cluster. Students will study and learn anatomy and physiology. The eleven body systems will be introduced (nervous, endocrine, immune, lymphatic, respiratory, cardiovascular, digestive, renal, reproductive, skeletal, and muscular). Students will learn about ethical and legal responsibilities, as well as the history and economics of healthcare. Students will engage in processes and procedures that are used in the delivery of essential healthcare services. As students learn to use medical terminology within a variety of medical and healthcare environments, they will develop the Skills for Success, academic, and technical skills necessary to function as a health care professional.

Structure and Function of the Human Body

0100502 2 Credits Grade 11

Students in this course study the structure and functions of the human body, including cellular biology and histology. Systematic study involves homeostatic mechanisms of the integumentary, skeletal, muscular, circulatory, nervous systems and special senses. Students will investigate the body's responses to the external environment, maintenance of homeostasis, electrical interactions, transport systems, and energy processes. Students will conduct laboratory investigations and fieldwork, use scientific methods during investigations to solve problems and make informed decisions. Students will learn medical terminology related to body systems. (Students can also earn CPR/AED/First-Aid certification while in the program.)

Certified Clinical Medical Assistant

0100602 2 Credits Grade 12

The Certified Clinical Medical Assistant (CCMA) is a multi-skilled healthcare practitioner who is competent in both clinical and administrative procedures such as how to perform basic lab tests; medical office management; prepare patients for physical examinations; take readings of patients' vitals: temperature, pulse, respiration, and blood pressure; emergency procedures; chart procedures; sterilization techniques; and take EKGs. This course will prepare students to take the National Health Careers Association (NHA) Certified Clinical Medical Assistant exam. Students will take the CCMA Certification Exam. Upon successful completion, students will receive a provisional certificate. After graduation, students will submit proof of completion letter, their diploma, and the provisional becomes full certification.

Allied Health Internship Course

0100601 1 Credits Grade 12

This course is designed to give students supervised practical application of previously studied theory. Students will participate in some clinical and/or internship experience within the program. The flu shot and PPD test are required prior to clinical in the senior year. Career opportunities are found in doctors' offices, clinics, hospitals, health maintenance organizations, and adult care centers.

(Agricultural Sciences Program) Curriculum for Agricultural Science Education (CASE)

Many different sciences are applied to this program- biology, animal husbandry, ecology, biotechnology, soil and environmental sciences. Students earning a B or higher in all the courses within the program may qualify for articulated college credit. **PRE:** *Algebra I*. **Student fees:** Materials- $125, Uniforms, misc.-$85

L/C

Agriculture, Food, and Natural Resources (AFNR)

0113301 1 Credit Grade 11

This course will introduce students to the world of agriculture, the pathways they may pursue, and the science, mathematics, reading and writing components they will use throughout the program. Students in the course will experience exciting hands-on activities, projects, and problems. Student experiences will involve the study of communication, the science of agriculture, plants, animals, and natural resources. While learning about the opportunities available in agriculture and natural resources, students will learn to solve problems, conduct

research, analyze data, work in teams, and take responsibility for their work, actions, and learning.

Principles of Agricultural Science - Animal (ASA)
0113502 2 Credits Grade 11
This course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in animal science. Students will participate in hands-on projects and activities to recognize the characteristics of animal science. Students will participate in projects and problems similar to those in animal science specialties, such as veterinarians, zoologists, livestock producers, or industry personnel, face in their respective careers. Students will continue to build their skills to investigate, conduct experiments, and document projects that solve real life problems. Students will communicate their solutions through reports and presentations.

Animal and Plant Biotechnology
(For Class of 2027 Only)
0113602 2 Credits Grade 12
This specialization course is designed to increase student understanding related to biotechnology concepts. Students will complete hands-on activities, projects, and problems designed to build content knowledge and technical skills in the field of biotechnology. Students are expected to become proficient at projects involving micropipetting, bacterial cultures and transformations, electrophoresis, and polymerase chain reaction. Students investigate current laboratory practices and techniques. In addition, students will understand the connections between the course and the FFA components that are important for the development of an informed agricultural education. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community.

Honors Agriculture, Research, and
Development Capstone (For Class of 2027 Only)
0113601 1 Credit Grade 12
In this course, students will apply the methods and knowledge learned from the previous Agricultural Sciences courses to synthesize their own research project to further expand their understanding and knowledge surrounding a specific problem. Students will identify a scientific question, develop and implement research procedures, document the research, analyze the resulting data, and present their findings and recommendations through a written report, a visual display, and a poster presentation. Students that complete, present, and pass the student-directed research project will be eligible to apply for and earn five transcripted credits from the Institute of Applied Agriculture at the University of Maryland.

Honors Animal & Plant Biotechnology (Class of 2028)
0113603 3 Credits Grade 12
This honors-level course integrates advanced animal and plant biotechnology with an authentic, student-driven research experience. Students develop a strong foundation in modern biotechnology concepts and laboratory techniques through hands-on investigations, including micropipetting, bacterial culture and transformation, gel electrophoresis, and polymerase chain reaction (PCR). Emphasis is placed on current laboratory practices, safety, data collection, and analysis, as well as the role of biotechnology in agriculture and related industries. Building on these technical skills, students design and complete a comprehensive capstone research project that serves as the final exam for the course. Students identify a relevant agricultural or biotechnology-related problem, formulate a scientific research question, develop and implement experimental procedures, analyze results, and draw evidence-based conclusions. Throughout the process, students practice professional documentation, problem-solving, and scientific communication. The capstone project culminates in a written research report, visual data display, and formal presentation to peers and members of the professional community. Connections to FFA and agricultural career pathways are emphasized. Students who complete and present the capstone research project may be eligible to apply for transcripted credit through the University of Maryland Institute of Applied Agriculture.

Applied Science/Agricultural Sciences
0131101 1 Credit Grade 12
This credit fulfills one of the three science credits required for graduation and is granted as a result of studying earth science, ecology, environmental science, biology, animal science, and chemistry.

American Culinary Federation – Professional Cooking Program

Students earning a B or higher in all courses within the program may qualify for articulated college credit. **PRE:** A*lgebra I.* **Student fees:** Exam fees-$95, Materials-$90, Uniforms-$75

L/C

Basic Cooking Principles

0106501 1 Credit Grade 11

This course is the introduction to the fundamental concepts and techniques in the profession of culinary arts. It provides hands-on clinical experience through school-based enterprises giving students the opportunity to develop the technical skills required in future culinary and baking courses as well as the food service industry. Students will be introduced to professional standards of the industry, safety and sanitation procedures, knife skills, including handling and care, cooking processes and procedures, product identification, vocabulary and terminology, industry equipment, recipe costing and quantity adjustments. Students participate in demonstrations and group exercises to supplement their development of technical skills and knowledge. Students will be required to take 3 certification tests. Students must pass both a written test and a performance assessment in order to become American Culinary Federation certified. Students will also take the ServSafe certification exam. Students will complete catering jobs for various customers.

Introduction to Professional Cooking

0106502 2 Credits Grade 11

This course is the second half of the introduction to the fundamental concepts and techniques in the profession of culinary arts. It provides hands-on clinical experience through school-based enterprises, giving the students the opportunity to develop the technical skills required in future culinary and baking courses as well as the foodservice industry. Students will be introduced to professional standards of the industry, safety and sanitation procedures, knife skills, including handling and care, cooking processes and procedures, product identification, vocabulary and terminology, industry equipment, recipe costing and quantity adjustments. Students participate in demonstrations and lab exercises to supplement their development of technical skills and knowledge. Students will complete catering jobs for various customers.

Professional Cooking

0106503 3 Credits Grade 12

This course continues to build on the foundation concepts and techniques from Basic Cooking Principles. Students will be instructed on the fundamental concepts, techniques, theories, ingredients, and methodologies involved in the preparation of basic menu items. Students rotate through food handling methods and techniques, portion control, costing, production, plating and garnishing of soups, salads, starches, vegetables, and entrees. Students participate in demonstrations, group exercises and school-based enterprises to supplement the students' development of technical skills and knowledge. Students will complete catering jobs for various customers.

Applied Trades Academy Program

Student fees: Uniforms- $43

This program introduces students to a variety of hands-on trade skills offered at the Cecil County School of Technology. Participants gain foundational experience in construction, welding and fabrication, electrical systems, small engine repair, laser engraving, CNC engraving, and general home improvement. Alongside technical training, students develop essential employability skills, including résumé writing, job application processes, workplace expectations, and effective professional habits. Throughout the year, students also have opportunities to shadow programs and industry professionals at the School of Technology, providing valuable insight into real-world career pathways. While in the ATA program, students will also have the opportunity to earn other core credits along with Foundation of Technology and Introduction to Construction & Safety credits that can be used towards their graduation requirements.

Automotive Technology Program

Academic skills of reading, writing, and math are heavily utilized and reinforced. Professional behaviors and inter-personal courtesy standards are also expected. Students earning a grade of B or higher in the program may qualify for articulated college credit. **PRE:** *Algebra I*.
Student fees: Exams-$90, Materials-$300, Uniforms-$185

L/C

Electrical/Electronics and HVAC

0108102 2 Credits Grade 11

This technical course is designed to teach the principles of electricity and electronics and apply them at the ASE MLR level. It builds on the measurement of electrical parameters, such as voltage, current, resistance, power, magnetism, electro-magnetism, and magnetic induction to connect with Physical Science courses. Students are taught the concept of Ohm's law in both application and mathematical theory. Detailed topics include the use of a digital multimeter (DMM) for the analysis of series, parallel, and series-parallel circuits. Specific automotive systems covered include batteries, charging and starting systems, lighting, gauges, accessories, electronics, automotive computers and solid-state devices, along with

communication systems. Students are taught how to apply electrical/electronic principles to repair car and truck electrical systems using diagnostic strategy.

Suspension & Steering, and Brakes
0108201 1 Credit Grade 11
This technical course is designed to teach the principles of automotive suspension/steering systems and 4-wheel suspension alignment. It builds on the concepts of geometry, gear reduction, hydraulics laws, and characteristics of liquids and how they apply to the operation and diagnosis of power steering and suspension systems. Steering column operation and diagnosis including supplemental restraint system service are included. This course covers the fundamentals of short/long-arm, and strut suspensions, including: caster, camber, thrust angle, toe-in, steering axis inclination, including angle, toe-out on turns, and how they apply to steering, suspension, and 4-wheel alignment. Students learn strategy-based diagnostic routines to help interpret and verify customer concerns and proper operation and to perform tests and inspections to determine the causes and make corrections related to suspension/steering/wheel systems and alignment.

MLR Powertrain & Engine Repair/Performance
0108403 3 Credits Grade 12
This course is designed to teach the principles of automotive engine operation and ASE MLR level service. It builds on the essential laws of physics, thermodynamics, and chemical reactions and how these principles apply to the operation of engine systems. It also covers general engine design and operation, cylinder head/valve train, cylinder block, lubrication at the ASE MLR level based on the approved task list. Through the inspection and testing process the student is taught to apply this knowledge to determine needed repairs and correctly repair a vehicle.

(Career-Based Learning Program)
Career Research & Development

PRE: *Algebra I.* **Student fees:** Exams- $120, Uniforms $50

Work-Based Learning (WBL) Experience
(For Class of 2027 Only)
0124103 3 Credits Grade 12
In this senior year course, students must have an internship/work placement in which they must accumulate a minimum of 270 hours on the job. The hours will be logged in cooperation with the instructor and the employer. Students must have consistent and reliable transportation to enable them to participate in their internship/work placement. The work placement is guided by a formal WBL agreement developed among the student, parent, instructor, and employer. The student work plan identifies the appropriate competencies, duties, tasks and outcomes in academic, technical, and workplace readiness areas that apply directly to the students' goals for specific work-related placement. Continuous supervision and regular communication among the student, employer, and the instructor will provide students with feedback and evaluation results from their WBL placements. In addition, students will formulate a process for reflection and evaluation of their own skill development.

Commercial Vehicle & Heavy Equipment Repair Program

Students earning a B or higher in all the courses within the program may qualify for articulated college credit.
PRE: *Algebra I.* **Student fees:** Exams-$150, Materials-$50, Uniforms-$88

Medium/Heavy Truck: Electrical/Electronic Systems
0102402 2 Credits Grade 11
This course provides the student with the knowledge and skills necessary to pass the NATEF/ASE Medium/Heavy Truck Technician Exams for Diesel Engines and Electrical/Electronic Systems and immediately enter a career in this area and/or attend post-secondary education and/or training. Students develop diagnostic, technical, and academic skills through classroom instruction and hands-on maintenance applications in the above areas. Through theory and real-world experiences, students master the concepts and the ability to identify and perform necessary repair tasks utilizing the latest techniques and applications on Class 4 through Class 8 trucks and tractors.

Medium/Heavy Truck: Suspension & Steering, and Brakes
0102401 1 Credit Grade 11
This course provides the student with the knowledge and skills necessary to pass the NATEF/ASE Medium/Heavy Truck Technician Exams for Suspension and Steering, Brakes, and Preventative Maintenance and immediately enter a career in this area and/or attend postsecondary education and/or training. Students develop diagnostic, technical, and academic skills through classroom instruction and hands-on maintenance applications in the above areas. Through theory and real-world experiences, students master the concepts and the ability to identify and perform necessary repair tasks utilizing the latest

techniques and applications on Class 4 through Class 8 trucks and tractors. In addition, this course will address person and environmental safety practices associated with clothing; respiratory protection; eye protection; entry level medium/heavy truck service technology principles and practices; hand tools; power tools/equipment; raising and supporting vehicles, safety principles and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulations.

Medium/Heavy Truck: Diesel and Preventative Maintenance (For Class of 2027 Only)

0102403 3 Credits Grade 12

This course provides the student with the knowledge and skills necessary to pass the NATEF/ASE Medium/Heavy Truck Technician Exams for Diesel Engines and Preventative Maintenance and immediately enter a career in this area and/or attend post-secondary education and/or training. Through theory and real-world experiences, students master the concepts and the ability to identify and perform necessary diesel engine diagnosis for general engine repairs, cylinder head and valve train diagnosis and repair, engine block diagnosis, lubrication systems, cooling system, air induction and exhaust systems, fuel system and engine brake inspection and adjustment. Students also learn engine system, cab/electrical/electronic, frame and chassis preventative maintenance, diagnosis, inspection, and repairs of HVAC systems including vehicle heating and AC service. All of these will be done utilizing the latest techniques and applications on Class 4 through Class 8 trucks and tractors.

Medium/Heavy Truck: Diesel and Preventive Maintenance I (Class of 2028)

0102701 1 Credits Grade 12

This course provides students with the foundational knowledge and skills necessary to prepare for the NATEF/ASE Medium/Heavy Truck Technician Exams in Diesel Engines and Preventive Maintenance. Through theory and real-world experiences, students develop an understanding of diesel engine systems and begin mastering essential diagnostic and repair skills. Instruction focuses on general engine repair, cylinder head and valve train diagnosis and repair, engine block diagnosis, lubrication systems, cooling systems, air induction and exhaust systems, fuel systems, and engine brake inspection and adjustment. Students are introduced to industry-standard tools, safety practices, and procedures while working with Class 4 through Class 8 trucks and tractors. This course prepares students for continued technical study, entry-level employment, and advanced training in diesel technology. **PRE:** *Medium/Heavy Truck: Electrical/Electronic Systems and Medium/Heavy Truck: Suspension & Steering, and Brakes*

Medium/Heavy Truck: Diesel and Preventive Maintenance II (Class of 2028)

0102702 2 Credits Grade 12

This advanced course builds upon the skills and knowledge developed in Diesel and Preventive Maintenance I and prepares students for successful entry into the diesel technician workforce, post-secondary education, and industry certification. Through advanced theory, hands-on application, and real-world experiences, students refine their abilities in diesel engine diagnosis and repair, preventative maintenance, and system troubleshooting. Instruction includes engine systems, cab, electrical and electronic systems, frame and chassis maintenance, and HVAC system diagnosis and repair, including vehicle heating and air conditioning service. All instruction and experiences utilize the latest techniques and applications on Class 4 through Class 8 trucks and tractors. Students will have opportunities for a practicum to provide them with supervised, real-world application of skills in a medium/heavy truck or equipment service environment. Experiences may include internships, apprenticeships, or school-based enterprise operations. **PRE:** *Medium/Heavy Truck: Diesel and Preventive Maintenance I*

Construction Trades Program

Students earning a B or higher in all the courses within the program may qualify for articulated college credit.
PRE: *Algebra I.* **Student fees:** Exams-$44, Tools-$225, Uniforms-$75

Foundations of Building and Construction Technology

0100101 1 Credit Grade 11

This course serves as the foundation and basis for all construction skills. The NCCER (National Center for Construction Education and Research) Core Curriculum is necessary for students to complete in order to move forward to the next level of the program. The course is designed to correlate to the modules of the NCCER national standards and related work-based learning opportunities. The modules are designed to have dedicated hours of instruction and dedicated hours to the hands-on application of those necessary skills and concepts. This organization of instruction and hands-on is to help reinforce and extend learning. Students must pass the module assessments for the Construction Core to be entered into the NCCER's National Registry. The National Registry provides nationally recognized certification in the industry.

Carpentry 1

0103502 2 Credits Grade 11

In this course, students will demonstrate mastery of carpentry specific topics and skills through instruction and hands-on application. Each module has dedicated instructional hours and hands-on hour criteria. Students will take a practical examination and will complete a performance task on each module based on the following topics. Building material, fasteners, and adhesives; hand and power tools; introduction to construction drawings, specifications, and layout; floor systems; wall systems; ceiling joist and roofing framing; introduction to the building envelope systems; and basic stair layout. Once students complete the module exams the results will be entered into the NCCER National Registry.

Carpentry 2

0103903 3 Credits Grade 12

In this course students will demonstrate mastery of carpentry specific topics and skills through instruction and hands-on application. Each module has dedicated instructional hours and hands-on hour criteria. Students will take a practical examination and will complete a performance task on each module based on the following topics. Commercial drawings; cold-formed steel framing; exterior finishing; thermal and moisture protection; roofing applications; doors and door hardware; drywall installation; drywall finishing; window, door, floor, and ceiling trim; and cabinet installation. The skill set from this program may lead to various opportunities in the construction industry. Additionally, students in this program may be involved in the house building project.

Cosmetology Program

PRE: *Algebra I.* **REC**: Foundations of Art. **Student fees:** Exams-$80, Materials-$800, Uniforms-$50

L/C

The Principles and Practices of Cosmetology

0105103 3 Credits Grade 11

This course provides an introduction to the field of cosmetology. Students develop and practice basic skills in cosmetology; develop a broad understanding of the variety of career options available to a licensed cosmetologist; and learn how science and math is a fundamental aspect of the practice of cosmetology. Essential to the field of cosmetology is also the understanding of effective communication skills, demonstration of effective human relations in a professional setting, as well as proper safety, and infection control procedures. This course requires 500 hours of instruction.

Advanced Cosmetology: Theory and Application

0105303 3 Credits Grade 11

This course allows students to develop and apply the techniques used in the field of cosmetology. Some techniques used are how to demonstrate and apply knowledge and skills acquired during in-school salon work based learning experiences; knowledge and demonstration of various hair coloring and lightening techniques; thermal hair curl, press, and style; application of artificial nail enhancements; demonstrate and explain different types of hair removal techniques. Students will apply the foundation knowledge of anatomy, physiology, chemistry and how it relates to the practice of cosmetology. These skill sets are continuously updated with academic, technical and workplace skills through salon applications. Requirements for this course are 500 hours of instruction. Students must complete the 1000 hours needed to be eligible to participate in a required work-based learning experience. All students are required to participate in a minimum of 150 hour work-based learning experience during the summer.

Mastery of Cosmetology (For Class of 2027 Only)

0105403 3 Credits Grade 12

This course provides students with the opportunity to further refine and apply skills that support all aspects of the cosmetology industry, and assists in preparing students to obtain employment in the field of cosmetology. Classroom and practical training emphasize academic, technical, and workplace skills through salon based application. To receive course credit, students must complete 1,500 hours total and take the Maryland State Board of Cosmetology examination. Successful completion of this course qualifies a student for a science credit in Applied Science/ Cosmetology. PRE: *Principles and Practice of Cosmetology and Advanced Cosmetology: Theory and Application*. ($80 for required state licensing exam) Mastery of Cosmetology I

Mastery of Cosmetology I (Class of 2028)

0105501 1 Credit Grade 12

This course provides students with the opportunity to further refine and apply skills that support all aspects of the cosmetology industry. Classroom instruction and hands-on practical training emphasize academic, technical, and workplace skills through salon-based application. Students continue developing proficiency in cosmetology theory, techniques, safety, sanitation, and professional practices in preparation for employment in the field or continued post-secondary education. Instruction supports progress toward the required 1,500 total training hours and introduces preparation for the Maryland State Board of Cosmetology examination. Successful completion of this course contributes toward

eligibility for a science credit in Applied Science/Cosmetology. **PRE:** *Principles and Practice of Cosmetology; Advanced Cosmetology: Theory and Application.*

Mastery of Cosmetology II (Class of 2028)
0105602 2 Credits Grade 12
This advanced course builds upon the skills and knowledge developed in Advanced Cosmetology I, focusing on the mastery of salon-based practices and professional readiness. Through continued classroom instruction and extensive hands-on training, students refine technical, academic, and workplace skills aligned with industry standards. Emphasis is placed on completing the 1,500-hour training requirement and preparing for the Maryland State Board of Cosmetology examination. Students participate in real-world salon experiences designed to support a successful transition into employment within the cosmetology field. Successful completion of this course qualifies a student for a science credit in Applied Science/Cosmetology. **PRE:** *Mastery of Cosmetology I.*

Applied Science/Cosmetology
0101101 1 Credit Grade 12
This credit fulfills one of the three science credits required for graduation and is granted as a result of studying chemistry and physics of cosmetology. Credit will be awarded to students who successfully complete Mastery of Cosmetology.

Criminal Justice & Law Enforcement Program

Students earning a B or higher in all the courses within the program may qualify for articulated college credit.
PRE: *Algebra I*. **Student fees:** Uniforms-$35

L/C

Criminal Justice & Law Enforcement I (Class of 2028)
0105701 Grade 11 1 Credit
This course is designed for students who are interested in public safety, law, and service-oriented careers. This course provides a broad overview of the criminal justice system, including law enforcement, courts, constitutional rights, and ethical responsibilities. Students will explore how laws are created and enforced, how cases move through the courts, and how public safety professionals serve communities in high-pressure, real-world situations. Through hands-on activities, role-playing scenarios, and team-based exercises, students will build essential skills such as communication, critical thinking, problem-solving, leadership, and professionalism. The course also emphasizes safety, wellness, and the importance of mental and physical fitness in public service careers. Students will learn about a wide range of career pathways, including law enforcement, legal services, emergency management, firefighting, EMS, and security, while developing a personalized career plan.

Criminal Justice & Law Enforcement II (Class of 2028)
0105702 Grade 11 2 Credits
This course builds upon the foundation established in Criminal Justice & Law Enforcement I. This course focuses on the real-world procedures, decision-making, and leadership skills used in modern policing and public safety operations. Students will examine the criminal justice system in greater depth, with emphasis on investigative procedures, ethical and legal responsibilities, and effective communication during criminal investigations and emergency responses. Through simulations, team-based scenarios, and mock responses, students will practice advanced critical thinking, problem-solving, and leadership under high-pressure conditions. The course also introduces incident management concepts, including basic applications of the National Incident Management System (NIMS) and Incident Command System (ICS), as well as search-and-rescue principles and hazard awareness. Career preparation is a central focus. Students will refine a personalized career plan, create a professional résumé and portfolio, and practice interview skills. Participants will engage in at least two career-connected learning experiences, such as job shadowing or site visits with local or state agencies, and are encouraged to participate in a related Career and Technical Student Organization (CTSO). This course helps students build confidence, resilience, and practical skills for future education, training, or careers in public service and safety.

Criminal Justice & Law Enforcement III
0105703 Grade 12 3 Credits
This is an advanced course designed for students who are seriously considering careers in law enforcement, public safety, or criminal justice. Building on the skills and knowledge developed in Courses I and II, this course emphasizes leadership, community engagement, ethical decision-making, and advanced investigative practices. Students will take on leadership roles during realistic simulations, including crime scene investigations, patrol scenarios, and emergency response exercises, while ensuring the protection of citizens' rights and adherence to ethical standards. The course integrates modern technology used in the field, such as digital communication tools, GIS mapping, data visualization, and project management software, to support informed decision-making and operational planning. Students will

also focus on physical fitness, mental wellness, and injury prevention to prepare for the demands of emergency services careers. Career readiness is a central component of the course. Students will refine professional résumés and portfolios, practice interview skills, and participate in meaningful work-based learning experiences such as internships, apprenticeships, job shadowing, or site visits with local or state agencies. Through these experiences and CTSO participation, students gain firsthand insight into professional expectations while developing the leadership, technical, and interpersonal skills needed for postsecondary education, training, or direct entry into the public service workforce.

Electrical Trades Program

Students earning a B or higher in all the courses within the program may qualify for articulated college credit.
PRE: *Algebra I.* **Student fees:** Exams-$44, Uniforms-$250

Foundations of Building and Construction Technology
0100101 1 Credit Grade 11
This course serves as the foundation and basis for all construction skills. The NCCER (National Center for Construction Education and Research) Core Curriculum is necessary for students to complete in order to move forward to the next level of the program. The course is designed to correlate to the modules of the NCCER national standards and related work-based learning opportunities. The modules are designed to have dedicated hours of instruction and dedicated hours to the hands-on application of those necessary skills and concepts. This organization of instruction and hands-on application is to help reinforce and extend learning. Students must pass the module assessments for the Construction Core to be entered into the NCCER's National Registry. The National Registry provides nationally recognized certification in the industry.

Electrical 1
0108402 2 Credits Grade 11
In this course students will demonstrate mastery of electrical specific topics and skills through instruction and hands-on application. Each module has dedicated instructional hours and hands-on hour criteria. Students will take a practical examination and a performance exam on each module based on the following topics. Electrical safety; introduction to electrical circuits; electrical theory; introduction to the National Electrical Code; device boxes; hand bending; raceways and fittings; conductors and cables; basic electrical construction drawings; residential electrical services; and electrical test equipment. Once students complete the module exams the results will be entered into the NCCER National Registry.

Electrical 2
0108303 3 Credits Grade 12
In this course students will demonstrate mastery of electrical specific topics and skills through instruction and hands-on application. Each module has dedicated instructional hours and hands-on hour criteria. Students will take a practical examination and a performance exam on each module based on the following topics. Alternating current; motors: theory and application; electrical lighting; conduit bending; pull and junction boxes; conductor installations; conductor termination and splices; grounding and bonding; circuit breakers; and control systems and fundamental concepts. Once students complete the module exams the results will be entered into the NCCER National Registry. This program emphasizes safe wiring procedures and current National Electrical Code standards.

Fire Science/Emergency Medical Services Program

This program is a joint venture among Cecil County Public Schools, Cecil County Firemen's Association, Cecil County Emergency Medical Services, and Maryland Fire and Rescue Institute of the University of Maryland at College Park. Students must be at least 16 years of age, a member in good standing with a Cecil County fire or rescue department (or a fire company involved in a mutual aid agreement with Cecil County), and have completed a Maryland Fire and Rescue Institute Verification of Membership and medical clearance form. Students earning a B or higher in all the courses within the program may qualify for articulated college credit.
PRE: *Algebra I.* **Student fees:** Uniforms-$100

Fire Emergency Medical Training/ High School Cadet I
0119301 1 Credit Grade 11
This course will include the following topics and must satisfy the minimum hours per topic which includes Emergency Medical Technician as set by the Maryland Fire and Rescue Institute. Major topics covered in this course include legal aspects of emergency care; infection control; patient assessment; the respiratory system; oxygen adjuncts and delivery; CPR; AED; bleeding control and management of soft tissue injuries;

musculoskeletal injuries and management; spinal immobilization; pediatric and obstetric emergencies; crisis intervention; multiple casualty and triage management; ambulance operations; and EMS systems. Methods of instruction include lecture, classroom and online activities, discussion, and team-focused practical scenarios. This course provides the student with the skills and ability to provide life-saving treatments to both medical and trauma patients. The student will learn basic anatomy and physiology of the human body and work to function within the state protocols to deliver care as a member of the Fire and Emergency Service Departments.

Fire Emergency Medical Training/
High School Cadet II

0119302 2 Credits Grade 11

This course will enhance the same topics as the Fire Emergency Medical Training High School Cadet I course, and the student, if successful in the course, will complete an Internship Program as established by the Maryland Institute for Emergency Medical Services System. And be tested by the National Registry to complete the Certification Process as an Emergency Medical Technician Basic.

Fire Emergency Medical Training/
High School Cadet III

0119303 3 Credits Grade 12

This course will include the following topics and must satisfy the minimum hours per topic while includes: Firefighter I, Hazardous Material Operations, Rescue Technician – Common Passenger Vehicle Rescue and Extrication. All of the courses are delivered in coordination with the Maryland Fire and Rescue Institute and will meet the appropriate National Fire Protection Association (NFPA) Standards. Firefighter I - major topics covered in this course are the fire department organization: communications: the incident command system; ropes and knots; fire behavior; safety; fire prevention; personal protective equipment; fire extinguishers; respiratory protection; ventilation; hoselines; forcible entry; search and rescue procedures; and ladder and sprinkler systems. Methods of instruction include lecture, discussion, and team-focused practical exercises. Hazardous Materials Operations - Major topics covered in this course include firefighter safety; hazard recognition, regulations and standards; chemistry; recognition and identifications; DOT guidebook; site management; container behavior; defensive control measures; personal protective equipment; detection, monitoring and sampling equipment; victim rescue and recovery; decontamination; and terrorist and other criminal activity. Methods of instruction include lecture, discussion, and team-focused practical exercises. Rescue Technician – Common Passenger Vehicle Rescue and Extrication Major topics covered in this course include planning for a passenger vehicle rescue incident; performing ongoing incident size-up; establishing scene safety zones; establishing fire protection; stabilizing passenger vehicles; isolating potentially harmful energy sources; determining access and egress points; creating access and egress opening; disentangling victims; removing packaged victims; and terminating passenger vehicle rescue incidents. Students will need to successfully complete exams for Awareness, Operations, and Technician levels during this course. Firefighter Survival and Rescue - Major topics covered in this course include firefighter safety, regulations and standards; survival and rescue mindset; rapid intervention teams; 2-in/2-out; drags and carries; ladder usage; self-rescue; wall breach; disentanglement; and large-area search. Methods of instruction include lecture, discussion, and team-focused practical exercises.

Heavy Industrial Maintenance Program

Students earning a B or higher in all the courses within the program may qualify for articulated college credit. **PRE**: *Algebra I.* **Student fees:** Exams-$44, Materials-$300, Uniforms-$35

Foundations of Building and Construction Technology

0100101 1 Credit Grade 11

This course serves as the foundation and basis for all construction skills. The NCCER (National Center for Construction Education and Research) Core Curriculum is necessary for students to complete in order to move forward to the next level of the program. The course is designed to correlate to the modules of the NCCER national standards and related work-based learning opportunities. The modules are designed to have dedicated hours of instruction and dedicated hours to the hands-on application of those necessary skills and concepts. This organization of instruction and hands-on application is to help reinforce and extend learning. Students must pass the module assessments for the Construction Core to be entered into the NCCER's National Registry. The National Registry provides nationally recognized certification in the industry.

Industrial Maintenance I

0123102 2 Credits Grade 11

In this course students will demonstrate mastery of industrial maintenance specific topics and skills through instruction and hands-on application. Each module has dedicated instructional hours and hands-on hour criteria.

Students will take a practical examination and a performance exam on each module based on the following topics: Orientation to the trade; Tools of the Trade; Fasteners and Anchors; Electrical theory; GMAW Welding and Welding Safety.

Industrial Maintenance II

0123303 3 Credits Grade 12

In this course students will demonstrate mastery of industrial maintenance specific topics and skills through instruction and hands-on application. Each module has dedicated instructional hours and hands-on hour criteria. Students will take a practical examination and a performance exam on each module based on the following topics: Oxyfuel cutting; gaskets and packing; craft-related mathematics; construction drawings, pumps and drivers; valves; introduction to test instruments; materials handling and hand rigging; mobile and support equipment; lubrication; conduit bending; AC motor controls; SMAW welding and welding safety. Once students complete the module exams the results will be entered into the NCCER National Registry.

Homeland Security & Emergency Preparedness Program

Students earning a B or higher in all the courses within the program may qualify for articulated college credit.
PRE: *Algebra I*. **Student fees:** Uniforms-$35

Administration of Justice II (For Class of 2027 Only)

0104902 2 Credits Grade 12

This course focuses on law enforcement procedures, terrorism, organized crime, street gangs, drug abuse, federal law enforcement agencies, the first responder role of law enforcement, corrections, the process of evidence collection and handling, and career in the justice system. The students will recognize the everyday challenges and operations of law enforcement agencies with special attention to career potential and development.

Honors Homeland Security Capstone Experience (For Class of 2027 Only)

0104901 1 Credit Grade 12

This course is designed to provide students with the opportunity to extend and apply their classroom learning. Students will complete an industry mentored project. The project is a year-long research assignment focusing on a topic of the student's choice or interest. The goal is to develop a base of knowledge that serves as a platform for a solution to the topic or issue that the student has chosen. Students will present their project and be able to answer questions about their topic.

Interactive Media Production Program

Students earning a B or higher in all the courses within the program may qualify for articulated college credit.
PRE: *Algebra I.* Student will need access to any type of camera or smartphone. **REC**: Foundations of Art.
Student fees: Exams-$325, Uniforms-$25, Materials-$25

L/C

Principles of Art, Media and Communication

0104401 1 Credit Grade 11

This foundation course provides students an understanding of all aspects of the Arts, Media and Communication industry. Students will examine the opportunities and requirements of the major career pathways in this industry including: Photography, Digital Imaging, Publication/Layout Design, Print Production, and Graphic Design. Upon completion of the course students will be able to demonstrate corporate/business communication and technical writing required in the field; demonstrate media literacy skills as well as an understanding of ethics and security related to the field; understand the changing nature of the industry and learn to adapt to the changes; demonstrate organization and file management; demonstrate the fundamentals of project management; work in teams to complete a project; and give and accept constructive criticism.

Interactive Media and Design Level I

0104502 2 Credits Grade 11

In this course students will focus on three pathway areas: Web Design/Development, Video Production, and Animation. Emphasis will be placed on group project development, and individual portfolio development. Students will gain a foundational knowledge of the following and more. Create and edit computer-generated images for both graphic and publication design applications; demonstrate an understanding of type as a design element, including concepts of form and counterform, color, texture, contrast and movement; use industry-standard software programs; create cross-platform interactive media products incorporating text, graphics, animation, video, scripted interaction, and sound; design and use storyboards for the layout and implementation of interactive media projects; demonstrate the ability to explain the trends in copyright laws and legal issues in the use and development of media communication; select, implement and evaluate appropriate project management techniques and tools; and

use the tools and skills needed to create drawings and graphics for a wide range of applications (Adobe CC).

Interactive Media and Design Level II
(For Class of 2027 Only)
0104402 2 Credits Grade 12
In this course students will continue their learning of the three pathway areas. Emphasis will be placed on group project development, project management, and individual portfolio development. Students will update their IMP Project Portfolio with examples of their best work. Students will advance their knowledge and skills in multimedia design and production through project planning and product development. Students will demonstrate the use of multiple tools and modalities in the production process.

Honors Interactive Media Portfolio Capstone
(For Class of 2027 Only)
0113701 1 Credit Grade 12
In the capstone course students will apply design, graphic and media communications, interactive technologies, and further develop project development skills to showcase a final project of their choosing. This project could be a client driven project that would satisfy or fill a client's need or want. Students will choose from a variety of skill sets they develop in earlier classes in order to showcase their ability to create and design an original product. Students will present their projects to industry partners, peers and the community.

Honors Interactive Media and Design Level II
(Class of 2028)
0104903 3 Credits Grade 12
This honors-level course builds on prior learning in interactive media, design, and multimedia production, with an emphasis on advanced project development, collaboration, and professional practice. Students deepen their skills across the pathway areas of design, graphic and media communications, and interactive technologies through structured projects that emphasize project management, workflow planning, and the effective use of multiple digital tools and modalities. Students maintain and refine a professional portfolio, curating and updating their Interactive Media Portfolio with examples of their highest-quality work. The culminating experience of the course is a student-selected capstone project that serves as the final exam. Students identify a design challenge or client-driven need, develop a project proposal, and manage the full production process from concept through completion. Using skills acquired in earlier courses, students create an original, industry-aligned product that demonstrates technical proficiency, creativity, and problem-solving. The capstone concludes with a formal presentation and showcase of the final product to peers, industry partners, and members of the community. Emphasis is placed on professional communication, reflection, and readiness for postsecondary education or careers in interactive media and design.

IT Networking Academy Program (Cisco Academy)

Students earning a B or higher in all the courses within the program may qualify for articulated college credit. **PRE**: *Algebra I.* **Student fees:** Exam-$525, Uniforms-$53

Cisco IT Networking I
0105301 1 Credits Grade 11
In this course students will begin to develop foundational skills necessary to help prepare for the opportunity to earn CompTIA Tech+ or A+ certification. Students will learn the fundamentals of operating systems, computer and network hardware, software, network security, virtualization and cloud technologies, IT management best practices, and IT policies and procedures with hands-on activities and simulations. Students will begin building a solid skill set in the fundamentals of common IT technologies.

Cisco IT Networking II
0105302 2 Credits Grade 11
In this course students will further develop upon the foundational skills learned in Cisco IT Networking I. Students will work to advance their knowledge and skill sets in installing and troubleshooting operating systems, software, workstation and network security, and standard IT operations. The hands-on activities and simulations will help students prepare how to apply skills. Students will be prepared to take and potentially earn CompTIA Tech+ or A+ certification.

Cisco IT Networking III
0105303 3 Credits Grade 12
Cisco IT Networking III is an advanced course designed to meet the objectives for the CompTIA Security+ certification. In this course with hard work and effort students will develop skills needed for a career in IT infrastructure covering troubleshooting, configuring, managing, and securing corporate networks. Students can look forward to designing and implementing functional networks, configuring and managing essential network devices, using devices such as switches and routers to segment network traffic and create resilient networks, troubleshooting network problems, and implementing network security, standards, and protocols.

Landscaping & Horticulture Production Program

Students are to provide the following: work gloves, hand pruners, safety glasses and boots. Students earning a B or higher in all the courses within the program may qualify for articulated college credit. **PRE**: *Algebra I.* **Student fees:** Exam-$75, Uniforms-$50

L/C

Principles of Plant, Animal, and Environmental Science

0113101 1 Credit Grade 11

This course provides an overview of plant, animal, and environmental sciences to facilitate student choice of pathway for further study. Plant studies will include ecology, microbiology, soil science, plant anatomy/physiology and plant diseases. The environmental science portion of the course introduces students to the diverse areas of environmental resources management, its principles and practices. Environmental and plant industry careers will be explored.

Foundations of Horticulture

0113102 2 Credits Grade 11

This course provides students with foundation, knowledge and skills necessary to pursue careers in the horticulture industry. Through theory, instruction and hands on experiences, students are introduced to the concepts of: plant growth and development, plant nomenclature, use of plants in landscape settings, the effect invasive species have on the landscape, principles and components of Integrated Pest Management (IPM) in controlling insects, diseases, and weeds. Additionally, the student becomes aware of career opportunities within the green industry and the economic value of horticultural crops, products, and related services.

Plant Production

0114101 1 Credit Grade 12

In this course students will build on prior knowledge of basic plant science. By incorporating market research and product development students will successfully plan, produce, and sell greenhouse and nursery crops. Students will expand their knowledge of plant nomenclature and plant cultural needs. Students will learn how to monitor and maintain proper growing conditions, and use Integrated Pest Management (IPM) strategies and environmentally sound practices necessary for producing healthy crops. Students will complete a business plan including product production cost, pricing, marketing, display and sale of plants.

Landscape Design and Management

0114102 2 Credits Grade 12

In this course students will have the opportunity to prepare and implement landscape designs based on a broad range of settings. Students will prepare designs including site analysis, collecting and using various field measurements, preliminary and final plans, and preparing cost estimates. Students will apply the principles of design, use drafting tools and techniques, and prepare various types of design views to present finished landscape designs. Students will select proper plants, planting techniques and install hardscapes and softscapes within the landscape design. Students will install and maintain lawns, identify harmful weeds, insects, and diseases. Students will maintain a landscape by applying techniques for mulching, watering, pruning, and pest control. Finally, students will evaluate all aspects of the design process, including costs, and incorporate sound horticultural and business practices required for entry level employment. Students have opportunity to experience hands-on activities in landscaping, greenhouse production, floral design, equipment operation, pesticides, nursery production, hydroponics, and aquaculture.

Applied Science/Natural Resources

0121101 1 Credit Grade 12

This credit fulfills one of the three science credits required for graduation and is granted as a result of studying and applying earth science, ecology, environmental science, biology, and chemistry concepts in the study of natural resources. Credit will be awarded to students who successfully complete The Landscaping and Horticulture Production Program.

Manual Machining/CNC Programming & Operations Program

PRE: *Algebra I.* **REC:** *Geometry or higher.*
Student fees: Uniforms-$100

L/C

Principles of Competitive Manufacturing

0102503 3 Credits Grade 11

Students will be introduced to the fundamental concepts and professional standards of the machining industry, including safety, precision measurement, milling, grinding, industry equipment as well as the vocabulary and terminology of the profession. This course includes in-class activities and lab activities. In-class activities include lectures, discussions, student presentations, and research. Lab activities include completing designated procedures by working in teams with industrial tools. During lab activities students will apply knowledge obtained from in-

class discussions and readings to further advance their understanding of manufacturing and machine technologies. Team projects are based on real-world scenarios and include group exercises that supplement students' development of their technical skills and knowledge.

Manual Milling

0102502 2 Credits Grade 12

Students increase the knowledge and skills they gained in the Principles of Competitive Manufacturing by performing basic process planning, set-up, and operation of common classes of machine tools such as tuning, milling, drilling, or surface grinding machines. Students work cooperatively with others and contribute to work efforts with ideas, suggestions, and feedback to improve the process, resolve a problem or improvise a new method. They follow basic quality assurance responsibilities for both single and multiple part production including statistical process control, and they are competent in all safety procedures for all machining operations and material handling and disposal. Students read and comprehend information on orthographic prints and job process sheets for routine manufacturing operations.

CNC Turning: Programming Set-up & Operations

0102501 1 Credit Grade 12

Students increase the knowledge and skills they gained in previous courses by performing CNC tuning and milling functions including programming and set-up operations. Students work cooperatively with others and contribute to work efforts with ideas, suggestions, and feedback to improve the process, resolve a problem or improvise a new method. They follow basic quality assurance responsibilities for both single and multiple part production including statistical process control, and they are competent in all safety procedures for CNC machining operations and material handling and disposal. Students read and comprehend information on orthographic prints and job process sheets for computerized manufacturing operations. Students will use the principles of Cartesian coordinates to develop a program for the manufacturing of a simple part and apply the principles of three-dimensional coordinate planes in the development of a simple program for the production of the part on a CNC lathe or CNC turning center.

Plumbing/HVAC Technology Program

Students earning a B or higher in all the courses within the program may qualify for articulated college credit. **PRE**: *Algebra I.* **Student fees:** Exams-$66, Materials-$187, Uniforms-$65

Foundations of Building and Construction Technology

0100101 1 Credit Grade 11

This course serves as the foundation and basis for all construction skills. The NCCER (National Center for Construction Education and Research) Core Curriculum which is necessary for students to complete in order to move forward to the next level of the program. The course is designed to correlate to the modules of the NCCER national standards and related work-based learning opportunities. The modules are designed to have dedicated hours of instruction and dedicated hours to the hands-on application of those necessary skills and concepts. This organization of instruction and hands-on application is to help reinforce and extend learning. Students must pass the module assessments for the Construction Core to be entered into the NCCER's National Registry. The National Registry provides nationally recognized certification in the industry.

Plumbing/HVAC 1

0115102 2 Credits Grade 11

In this course students will demonstrate mastery of plumbing/HVAC specific topics and skills through instruction and hands-on application. Each module has dedicated instructional hours and hands-on hour criteria. Students will take a practical examination and a performance exam on each module based on the following topics. Introduction to plumbing and HVAC; plumbing safety; tools of plumbing; plumbing and HVAC math; introduction to plumbing drawings; plastic pipe and fittings; copper tube and fittings; cast-iron pipe and fittings; steel pipe fittings; introduction to plumbing fixtures; introduction to drain, waste, and vent; introduction to water distribution systems; basic electricity; introduction to heating; introduction to cooling; basic copper and plastic piping practices; soldering and brazing; and basic carbon steel piping practices.

Plumbing/HVAC 2

0115103 3 Credits Grade 12

In this course students will demonstrate mastery of plumbing/HVAC specific topics and skills through instruction and hands-on application. Each module has

dedicated instructional hours and hands-on hour criteria. Students will take a practical examination and a performance exam on each module based on the following topics. Plumbing math two; reading commercial drawings; structural penetrations, insulation, and fire-stopping; installing and testing DWV piping; installing roof, floor and area drains; installing and testing water supply piping; types of valves; installing fixtures and valves; installing water heaters; basic electricity; fuel gas and fuel oil systems; alternating current; compressors; refrigerants and oils; leak detection, evacuation, recovery, and charging; metering devices; heat pumps; basic maintenance; chimneys, vents and flues; sheet metal duct system; fiberglass and fabric duct systems; commercial airside systems; air quality equipment; and introduction to hydronic systems. Students in this program will be involved in the house building project.

THE HOUSE BUILDING PROJECT AT CCST IN PARTNERSHIP WITH HABITAT FOR HUMANITY SUSQUEHANNA

Students in the Construction Trades, Electrical Trades, and Plumbing/HVAC Programs at Cecil County School of Technology construct a residential house. The House Building Project gives students a practical learning experience in a new home construction setting. Students apply math, language/communication, and technical skills to successfully complete a residential house project. As a result, students are taught all aspects of house construction from blueprints through interior finishes and readiness for sale.

Project Lead the Way® Biomedical Sciences Program

Students earning a B or higher and qualifying end of course assessment scores in all the courses within the program, may qualify for articulated college credit. **PRE**: *Algebra I.* **Student fees:** Exams- $190, Uniforms-$110

Principles of Biomedical Sciences

0115001 1 Credit Grades 9-10 (PHS)
Grade 11 (CCST)

Principles of Biomedical Science (PBS) is a high school course in the PLTW Biomedical Science Program. This course serves to provide foundational knowledge and skills in fields such as biology, anatomy & physiology, genetics, microbiology, and epidemiology as well as engage students in how this content can be applied to real world situations, cases, and problems.

Honors Human Body Systems with Lab FE

0116001 1 Credit Grades 10-11 (PHS)
0116002 2 Credits Grades 11 (CCST)

Human Body Systems (HBS) is a high school course designed to follow Principles of Biomedical Science (PBS) in the PLTW Biomedical Science pathway. The HBS course provides foundational knowledge and skills in anatomy and physiology, clinical medicine, and laboratory research. The course engages students in how this content can be applied to real-world situations, cases, and problems. The HBS course includes interviews, challenges, and testimonials from biomedical professionals in a variety of settings—clinical, research, and public health. **PRE:** *Principles of Biomedical Sciences*

Honors Medical Intervention FE

0119001 1 Credit Grades 11-12

Medical Interventions (MI) allows students to investigate the variety of methods involved in the prevention, diagnosis, and treatment of disease as they follow the lives of a fictitious family. The course explores how to prevent and fight infection, how to screen and evaluate the code in our DNA, how to prevent, diagnose, and treat cancer, and how to prevail when the organs of the body begin to fail. Through these scenarios students will be exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Each family case scenario will introduce multiple types of interventions, reinforce concepts learned in the previous two courses, and present new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. These interventions will be showcased across the generations of the family and will provide a look at the past, present, and future of biomedical science. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important role that scientific thinking and engineering design play in the development of interventions of the future. A final exam will be administered at the conclusion of the course.

Honors Biomedical Innovations with Lab FE

0118001 1 Credit Grades 11-12 (PHS)
0117002 2 Credits Grade 12 (CCST)

In this capstone course, students design and conduct experiments related to the diagnosis, treatment, and prevention of disease or illness. They apply their knowledge and skills to answer questions or to solve problems related to the biomedical sciences. They may

work with a mentor or advisor from a university, hospital, physician's office, or industry as they complete their work. Students are expected to present the results of their work to an audience, which may include representatives from the local healthcare, business community, or the school's PLTW partnership team. A final exam will be administered at the conclusion of the course.

Project Lead the Way®
Pre-Engineering Program

PRE: *Algebra I and Intro to Engineering Design*
Student fees: Uniforms-$60

Honors Digital Electronics (DE) FE
0156301 1 Credit Grades 11

This course introduces students to applied digital logic, a key element of careers in engineering and engineering technology. Students study the application of electronic logic circuits and devices, and apply Boolean logic to the solution of problems. Using Circuit Maker, the industry standard, students test and analyze simple and complex digital circuitry. Students design circuits, export their designs to a printed circuit auto routing program that generates printed circuit boards, and construct the design using chips and other components. A final exam will be administered at the conclusion of the course.

Honors Aerospace Engineering FE
0153302 2 Credits Grades 11

This course introduces student to the world of aeronautics, flight, and engineering. Students in this course will apply scientific and engineering concepts to design materials and processes that directly measure, repair, improve, and extend systems in different environments. The course deepens the skills and knowledge of an engineering student within the context of atmospheric and space flight. Students explore the fundamentals of flight in air and space as they bring the concepts to life by designing and testing components related to flight, such as airfoil, propulsion system, and a rocket. Students apply aerospace concepts to alternative applications such as a wind turbine and parachute. Students simulate a progression of operations to explore a planet, including creating a map of the terrain with a model satellite and using the map to execute a mission using an autonomous robot. A final exam will be administered at the conclusion of the course.

Honors Computer Manufacturing (CIM) FE
0158301 1 Credit Grade 12

This course teaches the fundamentals of computer manufacturing technology. It builds on the solid-modeling skills developed in previous courses of the program. Students use 3-D computer software to solve design problems. They assess their solutions through mass propriety analysis (the relationship of design, function and materials), modify their designs, and use prototyping equipment to produce 3-D models. Students will use 3-D modeling software; understand the operating procedures and programming capabilities of machine tools Computer Numerical Control (CNC) Equipment; convert computer-generated geometry into a program to direct the operation of CNC machine tools; program robots to handle materials in assembly-line operations (Robotics); and work in teams to design manufacturing work cells and tabletop factories to solve complex problems that arise in integrating multiple pieces of computer-controlled equipment. A final exam will be administered at the conclusion of the course.

Honors Engineering Design & Development FE
0158302 2 Credits Grade 12

This course enables students to apply what they have learned in academic and pre-engineering courses as they complete a challenging self-directed project. Students work in teams to design and build solutions to authentic engineering problems. An engineer from the program's partnership team mentors each student or team. At the end of the course, individuals or teams present their research paper and defend their projects to a panel of engineers, business leaders, and engineering college educators for professional review and feedback. This course equips students with the independent study skills they will need in post-secondary education, and careers in engineering and engineering technology. A final exam will be administered at the conclusion of the course. **FE**

Teacher Academy of Maryland Program

Students earning a B or higher in all the courses within the program may qualify for articulated college credit.
PRE: *Algebra I.* **Junior fee:** Materials/Uniforms-$75, **Senior fee:** Exam-$55. Professional dress is expected (no jeans, shorts) on a daily basis.

L/C

Human Growth and Development through Adolescence

0162301 1 Credit Grade 11

This course focuses on human development from birth through adolescence. Emphasis is placed on theories of physical, cognitive, and psychosocial development, the effect of heredity and the environment, the role of caregivers and the family, health and safety concerns, and contemporary issues. Students explore special challenges to growth and development. Students will have opportunities for guided observation of children from birth through adolescence in a variety of settings to help students further understand theories of human development. Students will begin to develop the components of a working portfolio to be assembled upon completion of the internship.

Teaching as a Profession

0100702 2 Credits Grade 11

This course focuses on the profession of teaching – its history, purposes, issues, ethics, laws and regulations, roles, and qualifications. Emphasis is placed on identifying the current, historical, philosophical and social perspectives of American education, including trends and issues. Students will explore major approaches to human learning. Students will participate in guided observations and field experiences in multiple settings to help them assess their personal interest in pursuing careers in this field and to identify effective learning environments. Students will continue to develop the components of a working portfolio to be assembled upon completion of the internship.

Foundations of Curriculum and Instruction

0100902 2 Credits Grade 12

This course explores curriculum delivery models in response to the developmental needs of all children. Emphasis is placed on the development of varied instructional materials and activities to promote learning, classroom management strategies, and a supportive classroom environment. Students will explore basic theories of motivation that increase learning. Students will participate in guided observations and field experiences to critique classroom lessons in preparation for developing and implementing their own. Students will complete a research project on an education topic to present at the county capstone gallery/walk in the spring. Students will continue to develop the components of a working portfolio to be assembled upon completion of the internship.

Honors Education Academy Internship

0100901 1 Credit Grade 12

The internship is the culminating course of the program. Students will have an opportunity to integrate content and pedagogical knowledge in an educational area of interest. They will have an opportunity to extend and apply their knowledge about teaching in a classroom setting under the supervision of a mentor teacher. Students will take the Para Pro-Exam in the spring following their internship. The students will complete their working portfolio and present it for critique. Students will create a Pre-Professional Portfolio during both years of TAM and senior students will complete an internship in a CCPS school.

Welding & Metals Technology Program

PRE: *Algebra I.* **Student fees:** Exam-$25, Materials-$25, Uniforms-$175

L/C

Foundations of Welding & Metals Technology

0116401 1 Credit Grade 11

Students will be introduced to the American Welding Society (AWS) Sense – Entry Level I program and receive welder specific training and pass the AWS – Welder Safety & Health Exam. Students will receive extensive training in construction safety by completing Occupational Safety and Health Administration (OSHA) 30. Students will receive an OSHA 30 card from the US Department of Labor. The OSHA 30 card is recognized across all construction related trades.

Welding 1

0116102 2 Credits Grade 11

In this course students will demonstrate mastery of welding specific topics and skills through instruction and hands-on application. Each module has dedicated instructional hours and hands-on hour criteria. Students will take a practical examination and a performance exam on each module based on the following topics. Welding safety; oxyfuel cutting; plasma arc cutting; air-carbon arc cutting and gouging; base metal preparation; weld quality; SMAW equipment and setup; SMAW electrodes; SMAW beads and fillet welds; joint fit-up and alignment; SMAW groove welds and backing; and SMAW-open-root groove welds-plate. Identification of welding equipment, metals, metal shapes, joint design, technical drawing reading, related math, and technical reading are included.

Welding 2

0116303 3 Credits Grade 12

In this course students will demonstrate mastery of welding specific topics and skills through instruction and hands-on application. Each module has dedicated instructional hours and hands-on hour criteria. Students will take a practical examination and a performance exam

on each module based on the following topics. Students will continue with content started in Welding 1 and build on those skills to include, but not limited to: Mechanical properties of metals, pre-heat and post weld heat treatment, welding symbols, SMAW groove welds with backing and SMAW open-root groove welds. Identification of welding equipment, metals, metal shapes, joint design, technical drawing reading, related math, and technical reading are included. Students are also taught metal fabrication within the program. Students are introduced to GMAW, FCAW, and GTAW welding processes.

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Student Graduation Plan

Name: _____ **High School:** _____
Last First M

Career Goals: _____

REQUIREMENTS:

	Passed	Hrs		Score	Date Met
Service Learning:	6		MCAP: Algebra		
	7		MCAP: English 10		
	8		LS MISA: Science		
	9		MCAP: Government		
			Combined		

Unweighted GPA _____ Weighted GPA _____ Completer Program: ❑ World Lang ❑ CTE: _____

Required	Grade 9	Grade	Credit	Grade 10	Grade	Credit	Grade 11	Grade	Credit	Grade 12	Grade	Credit
English (4)												
Social Studies (4)												
Science (3)												
Mathematics (4)												
Health (1)												
Physical Education (1)												
Tech Ed (1)												
Fine Arts (1)												
Completer Program (2-10)												
Electives (0-4)												
Total Credits (25)												
Additional Credits Earned												

Cecil County Public Schools
201 Booth Street
Elkton, Maryland 21921
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