

Charles County Public Schools



Charles County
Public Schools

Working together to achieve excellence for every student.

High School Program of Studies



Entering 9th grade SY21-22



Board of Education

Latina L. Wilson, *Chairperson*
Virginia R. McGraw, *Vice Chairperson*
Jennifer S. Abell
Tajala Battle-Lockhart
Elizabeth C. Brown
David Hancock
Michael Lukas
Ian Herd, *Student Member*

Superintendent of Schools

Kimberly A. Hill, Ed.D.

Deputy Superintendent

Amy L. Hollstein

Assistant Superintendent of Fiscal Services

Karen Acton

Assistant Superintendent of Human Resources

Nikial Majors

Assistant Superintendent of Supporting Services

Michael L. Heim

Mission Statement

The mission of Charles County Public Schools is to provide an opportunity for all school-aged children to receive an academically challenging, quality education that builds character, equips for leadership, and prepares for life, in an environment that is safe and conducive to learning.

The Charles County public school system does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, age or disability in its programs, activities or employment practices. For inquiries, please contact Kathy Kiessling, Title IX/ADA/Section 504 Coordinator (students) or Nikial M. Majors, Title IX/ADA/Section 504 Coordinator (employees/ adults), at Charles County Public Schools, Jesse L. Starkey Administration Building, P.O. Box 2770, La Plata, MD 20646; 301-932-6610/301-870-3814. For special accommodations call 301-934-7230 or TDD 1-800-735-2258 two weeks prior to the event.

CCPS provides nondiscriminatory equal access to school facilities in accordance with its Use of Facilities rules to designated youth groups (including, but not limited to, the Boy Scouts).

TABLE OF CONTENTS

Charles County Requirements for a Maryland High School Diploma.....	3
Student Service Learning.....	4
Diplomas	4
Maryland High School Certificate	4
Enrollment	4
High School Requirements Met in Middle School	4
Requirements for Charles County Academic Awards of Distinction.....	5
Class Ranking	5
Certificate of Merit	5
Charles County Public Schools Scholars Course of Study	5
Maryland Scholars.....	5
Academic Letter	5
Related Information	6
Advanced Placement Programs/Courses	6
Extracurricular Activities and Athletics Eligibility Requirements	6
National Collegiate Athletic Association (NCAA) – Divisions I and II	6
Grading Scale.....	7
Promotion Status.....	7
Regular Cumulative Grade Point Average (GPA).....	7
Weighted Cumulative Grade Point Average (GPA).....	7
Summer School.....	7
STEM	8
Alternatives and Options for Completion of High School	9
Alternatives to the Full-Time Four-Year Enrollment Requirement.....	9
Independent Study	9
Dual Enrollment.....	9
2021-2022 Courses Meeting Fine Arts, Technology Education, and Advanced Technology Education Credit.....	10
University System of Maryland: Minimum Qualifications for Regular Admissions	11
Articulated/Trancripped Courses and Programs.....	11
Pilot Programs.....	11
High School Course Withdrawal Procedures	12
Procedures and Guidelines for Schedule Changes	12
Schedule Change Appeal Process.....	12
Course Offerings.....	13
Academic Support.....	13
A.C.H.I.E.V.E.....	15
Business Education.....	17
Career & Technical Education Completer Programs.....	19
Biomedical Sciences (Project Lead The Way)	22

Business Management and Finance	23
Career Research and Development.....	24
CASE: National Resources & Agriculture.....	24
Computer Science.....	25
Maryland Fire and Rescue Institute.....	26
Pathway to Engineering (Project Lead The Way).....	26
ProStart – Food and Beverage Management.....	27
Teacher Academy of Maryland	28
Junior ROTC.....	29
Career and Technical Education Programs (Robert D. Stethem Educational Center).....	35
Automotive Technology.....	35
Heating, Ventilation, and Air Conditioning.....	36
Interactive Media Production.....	37
Academy of Health Professions: Pharmacy Technician.....	38
Academy of Health Professions: Physical Rehabilitation.....	39
Computer Science/Computer Technology.....	40
English.....	42
English for Speakers of Other Languages (ESOL)	46
Family and Consumer Sciences.....	47
Financial Literacy	48
Fine and Performing Arts	49
Health	58
Library Media.....	58
Mathematics	59
Physical Education	62
Science.....	65
Social Studies.....	68
Technology Education	72
World Languages	73
Glossary	77
Charles County Public Schools Graduation Status Report	79
Charles County High Schools and Centers.....	80



CHARLES COUNTY REQUIREMENTS FOR A MARYLAND HIGH SCHOOL DIPLOMA

To be awarded a diploma, a student shall be enrolled in Charles County Public Schools (CCPS) and have earned a minimum of **23** credits that include the following:

Subject Area	Specific Credit Requirements	
English (See pages 43-46)	4 credits	
Mathematics (See pages 60-62)	Entered 9th grade in SY20-21 or prior 3 credits 2 in Algebra 1 in Geometry COMAR 13.A.03.02.03 Each student shall enroll in a mathematics course in each year of high school that the student attends, up to a maximum of 4 years	Entered 9th grade in SY21-22 and beyond 4 credits 2 in Algebra 1 in Geometry 1 additional course with Algebra I as the prerequisite. **Each student shall enroll in 4 years of mathematics and earn 4 credits of mathematics in high school**
Science (See pages 66-68)	3 credits 1 Earth science, 1 Life science, and 1 Physical science Recommended sequence: Earth Systems Biology Chemistry or Physics	Students in PLTW programs/North Point Academy of Health Professionals-CNA, Biotechnology, and Engineering programs ONLY 3 credits 1 Earth science, 1 Life science, and 1 Physical science Recommended sequence: Biology Chemistry Honors Earth Systems or AP Environmental Science
Social Studies (See pages 69-72)	3 credits Recommended sequence: LSN Government U. S. History World History	
Fine Arts (See pages 50-59)	1 credit	
Physical Education (See pages 63-65)	½ credit Fitness for Life	
Health (See page 59)	Entered 9th grade in SY20-21 or prior ½ credit	Entered 9th grade in SY21-22 and beyond 1 credit Recommended sequence: ½ credit in 9 th grade ½ credit in 11 th grade
Technology Education (See page 73)	1 credit	
Financial Literacy (See page 49)	Entered 9th grade in SY20-21 or prior 1 credit	Entered 9th grade in SY21-22 and beyond ½ credit
Graduation Pathways (choose one)	Entered 9th grade in SY20-21 or prior 2 credits of World Language	Entered 9th grade in SY21-22 and beyond 2 credits of the same World Language
	and any remaining credits in electives OR 3-5 credits through the completion of a state-approved career and technical education program and any remaining credits in electives	

THE MARYLAND HIGH SCHOOL ASSESSMENTS (MHSA's)

Maryland State Department of Education Division of Curriculum, Assessment, & Accountability

Graduating Seniors	Assessment and Content	2021 Graduates and Beyond
	PARCC/MCAP Algebra I	Achieve a score of 725 or complete a Bridge Plan for Academic Validation
	PARCC/MCAP English 10	Achieve a score of 725 or complete a Bridge Plan for Academic Validation
	MISA	Participate only - Science
	HSA Government	Achieve a score of 394 or complete a Bridge Plan for Academic Validation

Students in attendance for SY2019-20 may qualify for Maryland Waiver for High School Assessments

STUDENT SERVICE LEARNING (SSL)

Service learning is a Maryland State Department of Education (MSDE) graduation requirement. This program requires all students to prepare, implement, and reflect upon a project that addresses a need or concern in their schools or community. All projects must meet the MSDE criteria for a quality service learning experience. In Charles County, components of this program are embedded in grades 6, 7, 8, and 9. Students who have not completed service learning by the end of their 9th grade year must contact the service learning coordinator at their school for information on how to complete the graduation requirement.

DIPLOMAS

The Maryland State Board of Education awards diplomas to all students who have met the requirements for graduation. Students in Charles County completing the CCPS Scholars Course of Study, the Maryland Scholars Course of Study, and/or meeting Certificate of Merit requirements receive additional recognition at graduation. View page 9 for options.

MARYLAND HIGH SCHOOL CERTIFICATE

The Maryland State Board of Education awards the Maryland High School Certificate to special education students whose Individualized Educational Program (IEP) was developed based on functional living and independent/career skills.

ENROLLMENT

The student shall satisfactorily complete four years of approved study beyond 8th grade unless on an approved option.

HIGH SCHOOL REQUIREMENTS MET IN MIDDLE SCHOOL

Algebra I, Geometry, and World Language courses completed in middle school can be used to meet high school graduation requirements and are awarded high school credit. High school credits earned in middle school are not calculated in high school GPA or Rank.

REQUIREMENTS FOR CHARLES COUNTY ACADEMIC AWARDS OF DISTINCTION

CLASS RANKING

Seniors attending Charles County Public Schools (CCPS) are ranked based on the weighted cumulative Grade Point Average (GPA) achieved in all coursework taken in high school. Class rank is recorded on the high school transcript and is acknowledged in academic awards. Only full-time diploma-bound students are included in the ranking. A full-time student is one who is enrolled in a CCPS high school for four or more periods during the school day. Students participating in Early Graduation are not ranked.

To determine rank, credits transferred in from outside the CCPS system are weighted according to the CCPS weighted scale.

The cumulative GPA is the average of all final grades earned in high school, rounded to the hundred-thousandths place.

CERTIFICATE OF MERIT

In addition to the high school diploma, students may be awarded a Charles County Certificate of Merit. This recognition is based on a student's weighted cumulative GPA of 3.2 or higher with no failing final grades during the high school years.

CHARLES COUNTY PUBLIC SCHOOLS SCHOLARS COURSE OF STUDY

In addition to pursuing the high school diploma, students may wish to participate in the CCPS Scholars Course of Study. Within the 23 credits required for graduation, students enrolled in high school for 4 years must:

(a) Earn 18 advanced credits which must include:

- 4 English (Honors, Advanced Placement)
- 3 Lab Sciences (Honors, Advanced Placement)
- 3 Social Studies (Honors, Advanced Placement)
- 4 Mathematics—taken in grades 9 through 12 (at least 3 must be Honors or Advanced Placement)
- 3 World Languages—at least two in the same language (Credit can be awarded based on successful completion of designated high school level World Language courses taken during middle school.)
- 1 additional advanced course (Honors, Advanced Placement)

(b) Achieve a cumulative Grade Point Average of 3.5 (weighted)

Students who complete the academically rigorous CCPS Scholars Course of Study are formally recognized in the following ways:

- (1) Statement on report card and final transcript;
- (2) Medallion at graduation ceremony; and
- (3) Recognition in graduation program and senior awards night.

More specific information about the CCPS Scholars Course of Study is available through school counseling offices.

MARYLAND SCHOLARS

The Maryland State Department of Education has partnered with the Maryland Business Roundtable for Education to acknowledge students who have completed a course of study that is beyond the basic requirements for graduation. Students are designated as Maryland Scholars by completing the following requirements:

- 4 credits of English
- 4 credits of Math
Including Algebra I, Geometry, Algebra II
- 3 credits of Lab Science, Biology, Chemistry, Physics (preferred)
- 3 credits of Social Science, U.S. History, World History, Government
- 2 credits of the same World Language

Students must attain a 3.0 weighted cumulative GPA to qualify.

ACADEMIC LETTER

Students may be awarded an Academic Letter when they have a weighted GPA of 3.5 or higher with no D or F grades for three consecutive quarters during the same school year. See individual school handbooks for more details.

RELATED INFORMATION

ADVANCED PLACEMENT PROGRAM/COURSES

The College Board's Advanced Placement (AP) Program enables students to pursue college-level studies while still in high school. Advanced Placement courses provide challenging learning opportunities that parallel the expectations of college-level courses. These courses prepare students to take the Advanced Placement examinations administered annually. Students may earn college credit by performing at an exemplary level on these end-of-course examinations. A fee is associated with these exams. Further information may be obtained from the high school counseling department. Charles County Public Schools offers the following Advanced Placement Courses:

Comparative Government and Politics	World History	Physics 2
English Language and Composition	Calculus AB	Physics C
English Literature and Composition	Calculus BC	Latin
European History	Statistics	French Language and Culture
Human Geography	Computer Science A	Spanish Language and Culture
Macroeconomics	Computer Science Principles	Art History
Microeconomics	Biology	Music Theory
Psychology	Chemistry	Studio Art: Drawing
United States Government and Politics	Environmental Science	Studio Art: 2-D Design
United States History	Physics 1	Studio Art: 3-D Design

For more information on the Advanced Placement Program, visit the College Board website at www.collegeboard.com/apstudents. For specific course and exam information at your high school, see your school counselor.

EXTRACURRICULAR ACTIVITIES AND ATHLETICS ELIGIBILITY REQUIREMENTS

Please click on the link below:

<https://www.ccboe.com/index.php/athletics>

NATIONAL COLLEGIATE ATHLETIC ASSOCIATION (NCAA) – Divisions I and II

Students interested in competing in athletics during their initial year of college must meet the eligibility requirements set by the NCAA. These requirements include specific high school coursework, along with a minimum Grade Point Average and ACT/SAT score. To obtain the latest requirements, parents, and students should contact their athletic director, school counselor, or the NCAA directly by calling (877) 262-1492 or by consulting the NCAA website. High school athletes wishing to compete in college must also register with the NCAA and can do so online by following links on this same site.

Click on the link below to search for Charles County Public Schools' list of NCAA approved courses. You can search by the high school's six-digit NCAA High School Code or six-digit CEEB/ACT Code (code on page 80). You may also search by city/state and high school name.

<https://web1.ncaa.org/hsportal/exec/hsAction?hsActionSubmit=searchHighSchool>

For additional information, contact the NCAA online at

<https://web3.ncaa.org/ecwr3/>

GRADING SCALE

Semester and final grades will be computed by averaging numerical grades. Quarterly grades will be calculated by deriving a quarterly arithmetic average, then translating that average into a letter grade using the scale listed below:

- A - Superior (90 - 100%)
- B - Above Average (80 - 89%)
- C - Average (70 - 79%)
- D - Below Average (60 - 69%)
- F - Failure (0 - 59%)

PROMOTION STATUS

10th Grade – Minimum of 6 credits

11th Grade – Minimum of 12 credits

12th Grade – Minimum of 16 credits **and the completion of at least three years of high school**

REGULAR CUMULATIVE GRADE POINT AVERAGE (GPA)

(A=4.0, B=3.0, C=2.0, D=1.0, and F=0.0)

WEIGHTED CUMULATIVE GRADE POINT AVERAGE (GPA)

Weighted classes are identified in the course description with the Code "W" (0.5) or "W*" (1.0).

Advanced Placement grades are weighted by adding 1 point (1.0) for each grade (A=5.0, B=4.0, C=3.0, D=1.0, and F=0.0) in a year-long class and .5 for each semester AP course. No weighted points are given for a D or failing grade.

Designated Honors courses are weighted by adding one-half point (.5) for each grade (A=4.5, B=3.5, C=2.5, D=1.0, and F=0.0) in a year-long course and .25 in a semester Honors course. No weighted points are given for a D or failing grade.

All Project Lead the Way Specialization and PLTW Capstone Courses will be weighted by adding 1 point (1.0) for each grade (A=5.0, B=4.0, C=3.0, D=1.0, and F=0.0). No weighted points are given for a D or failing grade.

Transfer credits are converted to the CCPS weighting system and no weighted points are given for a D or failing grades.

SUMMER SCHOOL

Students who fail core subjects should consider taking classes in the summer school program. A maximum of two make-up credits may be taken in summer school. For a student to be eligible to take a course for make-up in summer school, a student must be enrolled until March 1 for a year-long course; a student must be enrolled for at least nine weeks for a semester course. Specific information about class offerings and summer school location, along with additional requirements, will be available from the high school counseling department in June.



STEM

Science, Technology, Engineering, and Mathematics Opportunities

STEM education is an approach to teaching and learning that integrates the content and skills of science, technology, engineering, and mathematics. Courses and activities are developed to prepare students to compete in the global marketplace. The skills and learning attained by participating in STEM courses and activities are transferable to all areas of the educational experience. All students are encouraged to explore STEM activities, coursework, postsecondary study, and careers.

Curricular Opportunities Additional information available in this booklet and availability of opportunities varies from school to school	Extracurricular Opportunities Additional information available at individual schools and availability of opportunities varies from school to school
<p>Computer Science/Computer Technology</p> <ul style="list-style-type: none"> • AP Computer Science A • AP Computer Science Principles • Computer Internship • Computer Science Capstone • Exploring Computer Science • Introduction to Computer Programming • Web Design and Development <p>Engineering and Technology Education</p> <ul style="list-style-type: none"> • Foundations of Technology • Computer Assisted Drafting and Design (CADD) • Advanced Design Applications ATE • Engineering Design ATE <p>Mathematics Courses (See pages 59-61)</p> <p>Project Lead The Way (PLTW)</p> <p>Biomedical Sciences</p> <ul style="list-style-type: none"> • Principles of the Biomedical Sciences • Human Body Systems • Medical Interventions • Biomedical Innovations <p>Project Lead The Way (PLTW)</p> <p>Pathway To Engineering</p> <ul style="list-style-type: none"> • Introduction to Engineering Design • Principles of Engineering • Digital Electronics • Computer Integrated Manufacturing • Aerospace Engineering • Civil Engineering & Architecture • Engineering Design and Development (EDD) <p>Science Courses (See pages 65-67)</p>	<p>Charles County FIRST Robotics Team</p> <p>Computer Bowl</p> <p>Cyber Security Team</p> <p>Destination Imagination Team</p> <p>Environmental Engineering Club</p> <p>Envirothon Team</p> <p>High School Math Team</p> <p>It's Academic</p> <p>Maryland Business Roundtable Innovative STEM School program</p> <p>MESA (Mathematics, Engineering, and Science Achievement)</p> <p>National Society of High School Scholars</p> <p>National Technical Honor Society</p> <p>Personal Finance Challenge</p> <p>Skills USA Team</p> <p>Technology Club</p> <p>Unmanned Aerial Vehicle (UAV) Club</p> <p>VEX Robotics</p>

ALTERNATIVES AND OPTIONS FOR COMPLETION OF HIGH SCHOOL

ALTERNATIVES TO THE FULL-TIME FOUR-YEAR ENROLLMENT REQUIREMENT

In recognition of the fact that four-year enrollment in a public high school may not serve the best interests of some students, the following alternative programs are available:

- **Early Graduation:** Qualified students who have met Student Service Learning (SSL) and Maryland High School Assessments (MHSA's) have the opportunity to graduate at the end of their junior year. Students must apply and have a minimum of 15 credits by the end of their sophomore year. Students must register and complete English III in summer school for original credit prior to junior year. Students participating in Early Graduation are not ranked.
- **Full-time College Waiver:** Qualified students who have met all other graduation requirements have the opportunity to attend college full-time during their senior year, completing the high school English IV requirement by taking and passing two semesters of approved college-level English courses. Students may participate in commencement activities (prom, senior trip, and pictures). Students may NOT participate in extracurricular and athletic activities, academic contests, and student rank at their high school. Students must contact appropriate school personnel for senior activity information.
[Full-time College Waiver](#) or see your school counselor for a physical copy.
- **Virtual Academy:** An educational program offered through CCPS that provides a hybrid of face-to-face instruction and online high school courses. Credit is awarded upon satisfactory completion of subject requirements. Students who enroll in Virtual Academy are self-motivated independent learners who have basic computer skills. Virtual Academy accepts students who are in the 10th, 11th, and 12th grade and who are referred by the school principal.

Each of these alternatives requires that interested students follow specific procedures established by Charles County Public Schools. **The guidelines, forms, and timelines for application are available from high school counseling departments.**

INDEPENDENT STUDY

Arrangements for Independent Study are made on an individual basis to address a particular academic need. Independent Study is a contractual arrangement with approval of the principal for a grade and credit in a designated course. Students taking Independent Study must be self-motivated, independent individuals who learn with minimal supervision.

DUAL ENROLLMENT

Qualified juniors and seniors have the opportunity to earn college credit at a 50% tuition savings at the College of Southern Maryland (CSM) while attending high school. Students must select approved college-level courses from CCPS listed under "CSM Recommended General Education Courses" or courses approved under "Popular Programs by Transfer". Students must be approved to participate in the Dual Enrollment program by CCPS and meet the requirements to participate in the Dual Enrollment Program at CSM.

[Dual Enrollment Application](#) or see your school counselor for a physical copy.

2021-2022 COURSES MEETING FINE ARTS, TECHNOLOGY EDUCATION, AND ADVANCED TECHNOLOGY EDUCATION CREDIT

FINE ARTS (FA)

- Acting
- Advanced Acting I, II
- Advanced Art
- Advanced Placement Art History
- Advanced Placement Music Theory
- Advanced Placement Studio Art Drawing
- Advanced Placement Studio Art 2-D Design
- Advanced Placement Studio Art 3-D Design
- Architecture and Interior Design
- Art I, II
- Ceramics I, II, III
- Chamber Choir I, II, III, IV
- Class Piano I, II, III, IV
- Concert Band I, II, III, IV
- Concert Choir I, II, III, IV
- Dance I, II
- Drawing/Design
- Guitar I, II, III, IV
- Jazz Ensemble I, II, III, IV
- Men's Chorus I, II, III, IV
- Multimedia Production I, II, III
- Music Theory
- Orchestra I, II, III, IV
- Painting I, II, III
- Photography I, II, III
- Sculpture
- Show Choir I, II, III, IV
- Stage Production I, II, III
- Symphonic Band I, II, III, IV
- Theatre Arts
- Women's Chorus I, II, III, IV

TECHNOLOGY EDUCATION (TE)

- Advanced Placement Computer Science Principles
- Exploring Computer Science
- Foundations of Technology (FoT)
- Introduction to Engineering Design (IED)

ADVANCED TECHNOLOGY EDUCATION (ATE)

- Advanced Design Applications
- Engineering Design

UNIVERSITY SYSTEM OF MARYLAND: MINIMUM QUALIFICATIONS FOR REGULAR ADMISSIONS

The following high school course work requirements apply to students seeking admission to four-year public colleges and universities in Maryland:

SUBJECT

- English - 4 credits
- Social Science/History - 3 credits
- Mathematics - 4 credits (Students must complete Algebra I, Geometry, and Algebra II. Students who complete Algebra II prior to their final year must complete the four-year mathematics requirement by taking a course or courses that utilize non-trivial algebra.)
- Biological and Physical Sciences (two must be lab sciences) - 3 credits
- World Languages (other than English) - 2 credits of the same language

Each institution shall publish its own decision criteria, which may be more rigorous than the system-wide requirements listed above. Additionally, individual schools may choose to accept Advanced Technology coursework in lieu of the World Language requirement.

All students are encouraged to exceed the minimum entrance requirements by taking honors or Advanced Placement (AP) courses, as well as additional academic electives including a fourth year of all core subjects and a third year of World Language.

ARTICULATED/TRANSCRIPTED COURSES AND PROGRAMS

The following Charles County high school courses are articulated (may be eligible for college credits) with the College of Southern Maryland, University of Maryland, Towson University, Stevenson University, or other post-secondary institutions.

- Academy of Health Professions
- Advanced Algebra with Trigonometry
- Advanced Computer Applications, Integration, and Development
- Automotive Technology
- CASE: Natural Resources
- Collision Repair
- Composition and Rhetoric
- Computer Internship
- Criminal Justice
- Culinary Arts
- Drafting and Design Technology
- Early Childhood Education and Childcare
- Engineering Concepts
- Graphic Communications
- Introduction to Advanced Math
- Introduction to Computer Programming
- IT Networking (CISCO)
- Manufacturing Technology
- Maryland Fire and Rescue Institute (MFRI)
- Pre-Calculus
- Project Lead The Way (PLTW) Biomedical Science
- Project Lead The Way (PLTW) Engineering
- Prostart- Food and Beverage Management
- Teacher Academy of Maryland

PILOT PROGRAMS

Individual high schools may offer approved pilot courses in addition to those listed in the Program of Studies. Please see your counselor and course selection sheet for more information.

HIGH SCHOOL COURSE WITHDRAWAL PROCEDURES

PROCEDURES AND GUIDELINES FOR SCHEDULE CHANGES

At the beginning of each school year, students are permitted to submit a written request for a schedule change on a Schedule Change Request Form. This request must be made within the first ten days of school and include the following: a parent signature, a reason for the desired change, the course that the student wishes to drop, and the course the student wishes to add. A Schedule Change Request Form will be reviewed only if the request includes one or more of the following reasons:

- A scheduling error
- A course needed for graduation
- An inappropriate academic placement
 - Failure to read or complete the summer assignments does not constitute as an inappropriate academic placement.
 - <https://www.ccboe.com/ss/wp-content/uploads/RequesttodropAPorHonorsCourse.pdf>
- A recommendation by administration

Schedule Change Request Forms submitted within the first ten days of school will be reviewed. Once the review is completed, the school counselor will notify parents of approval or denial. If a Schedule Change Request is approved and a student withdraws from a course before the first interim for semester courses and the first quarter for a full-year course, no notation is made on the record. If a student is approved to withdraw after the period listed above, a notation will be made on the student's transcript with the grade earned to date of withdrawal. No withdrawals from courses will be approved after the first grading period in a semester course or after the first semester in a year-long course.

SCHEDULE CHANGE APPEAL PROCESS

An appeal can be made in writing to the appropriate school level administrator. Signatures of the student and parent/guardian are required. Once a decision is made on the appeal, the school level administrator will notify the parent/guardian. Written appeals to a principal's decision should be sent to the Office of School Administration.

COURSE OFFERINGS



ACADEMIC SUPPORT

AVID I

142014 1 credit Grades 9, 10

AVID II

142024 1 credit Grades 10, 11

AVID III

142034 1 credit Grades 11, 12

AVID IV

142044 1 credit Grade 12

Prerequisite: *Meets established criteria for enrollment*

These courses are college preparatory classes designed to prepare students for success in pursuing advanced level courses leading to acceptance to and success in a four-year college or university. The AVID elective classes help students succeed in a rigorous curriculum and complete a college preparatory path. Through a variety of instructional strategies, students develop skills in higher-level thinking, writing across the curriculum, and reading across the curriculum to access challenging course material. The AVID elective classes provide support through student development and use of focused note taking, binder organization, reflective learning strategies, team building, time management, tutorials, Socratic seminars, public-speaking and test-taking skills, and essay writing. Students also participate in college, career, and cultural exploration activities.

LITERACY I

019998 1 credit Grade 9

Prerequisite: *Meets established criteria for enrollment, taken concurrently with English I*

LITERACY II

019999 1 credit Grade 9

Prerequisite: *Meets established criteria for enrollment, taken concurrently with English I*

LITERACY III

019996 1 credit Grade 10

Prerequisite: *Literacy I, taken concurrently with English I or II*

LITERACY IV

019997 1 credit Grade 10

Prerequisite: *Literacy II or recommendation from Literacy I, taken concurrently with English I or II*

LITERACY V

019995 1 credit Grade 11

Prerequisite: *Literacy IV, recommendation from Literacy III or teacher placement based on student data, taken concurrently with English III*

LITERACY VI

019994 1 credit Grade 12

Prerequisite: *Literacy V, or teacher placement based on student data, taken concurrently with English IV*

These courses are designed to extend instruction for students who require additional instructional support. The focus of instruction will be to assist students in developing comprehension strategies to become independent readers across content areas. Students will be recommended and selected for these courses as determined by the data from the Fountas & Pinnell Benchmark Assessment.

PREP PLUS I**140014** 1 credit Grade 9***Prerequisite: Recommendation of the Individualized Education Program (IEP) Committee*****PREP PLUS II****140024** 1 credit Grade 10***Prerequisite: Recommendation of the Individualized Education Program (IEP) Committee*****PREP PLUS III****140034** 1 credit Grades 11, 12***Prerequisite: Recommendation of the Individualized Education Program (IEP) Committee*****PREP PLUS IV****140044** 1 credit Grades 11, 12***Prerequisite: Recommendation of the Individualized Education Program (IEP) Committee***

Students selected for these courses are provided additional time and support. These courses will emphasize content and organizational and study skills that enable students to move toward independence with their learning.

SKILLS FOR SUCCESS**140114** 1 credit Grades 9, 10, 11, 12

This course is designed to provide students with explicit instruction in the areas of interpersonal communication, social skills and self-advocacy to promote access and inclusion in classroom and community settings. The course is available for students with an Individualized Education Program (IEP).

STRATEGIES FOR PERSONAL MANAGEMENT**02984V or W** 1 credit Grades 9, 10, 11, 12

This course is designed to assist students in development of decision-making and problem solving strategies using economics, career, and social issues as a focus. The course is available to students with an Individualized Education Program (IEP).

SUPPLEMENTAL READING I**018514** 1 credit Grades 9, 10, 11, 12**SUPPLEMENTAL READING II****018524** 1 credit Grades 9, 10, 11, 12**SUPPLEMENTAL READING III****018534** 1 credit Grades 9, 10, 11, 12**SUPPLEMENTAL READING IV****018544** 1 credit Grades 9, 10, 11, 12***Prerequisite: Meets established criteria for enrollment, taken concurrently with English***

These courses are designed to provide acceleration in reading skills for students whose scores on baseline screening indicate the need for such assistance. Students will be recommended and selected for these courses as determined by the data from the Fountas & Pinnell Benchmark Assessment.

A.C.H.I.E.V.E

The A.C.H.I.E.V.E. Program is a regional program in Charles County that provides an alternate curriculum of instruction for students pursuing a certificate of high school completion rather than a high school diploma. Eligibility is determined through the Individualized Education Program (IEP) process. Students in the A.C.H.I.E.V.E. Program will participate in the Multi-State Alternate Assessment and Alt-MISA Science.

CAREER/VOCATIONAL

LS0064

Grades 9, 10, 11, 12

LS0065

Grades 9, 10, 11, 12

These courses will provide students with appropriate skills necessary to demonstrate positive work attitudes and behaviors, to include self-determination and self-advocacy skills. Throughout the four years of high school, students will participate in a variety of work-based learning opportunities within the school building, as determined by a student's IEP. Students in 11th and 12th grade may participate in work-based learning opportunities outside of the school building. An emphasis will be placed on transition planning to the adult world and providing students with access to community service providers.

COMMUNITY

LS0074

Grades 9, 10, 11, 12

LS0075

Grades 9, 10, 11, 12

These courses will provide students with the individual skills necessary to access community resources with the highest level of independence possible. Instruction will target safety in the community, accessing general community activities, and travel training on public transportation. The level of community access will be determined by individual student needs, as dictated by his or her IEP.

ENGLISH

LS0014

Grades 9, 10, 11, 12

LS0015

Grades 9, 10, 11, 12

These courses will provide students with functional literacy skills to enable them to express and receive communication through a variety of methods as determined by his or her IEP. Students will access Modified-learning outcomes based on the English Core Content Connectors.

MATHEMATICS

LS0034

Grades 9, 10, 11, 12

LS0035

Grades 9, 10, 11, 12

These courses will provide students with basic functional mathematics skills to facilitate independence in the areas of monetary transactions, measurement, and time. The level of instruction and amount of independence will vary based on each student's IEP. Students will access modified learning outcomes based on the Mathematics Core Content Connectors.

RECREATION/LEISURE

LS0054

Grades 9, 10, 11, 12

LS0055

Grades 9, 10, 11, 12

These courses will provide students instruction that will teach them the skills necessary for participation in a variety of recreational, leisure, and extra-curricular activities for leisure, hobbies, and physical fitness. Instruction will focus on increasing independent interactions with peers as well as reducing a student's dependence on adult support. Activities to support this instruction will occur inside and outside the school environment, as appropriate.

SCIENCE/HEALTH

LS0044

Grades 9, 10, 11, 12

LS0045

Grades 9, 10, 11, 12

These courses will provide students instruction, which focuses on independent personal care, appropriate health and safety practices, self-advocacy skills, simplified science instruction relating to the human body, nutrition, and the environment. Students will access modified learning outcomes based on the Next Generation Science Standards.

SOCIAL STUDIES/CITIZENSHIP**LS0024****Grades 9, 10, 11, 12****LS0025****Grades 9, 10, 11, 12**

These courses will provide students instruction to enable them to interact within the community as responsible consumers and citizens, to the greatest level of independence possible. A focus will be placed on the acquisition of self-advocacy skills.



BUSINESS EDUCATION

The goals of Business Education are to provide:

1. Opportunities for all students to acquire business knowledge, skills, and attitudes needed to function effectively in any career
2. A sequence of foundation and advanced courses to support continuing education in business administration, management, finance, and marketing
3. A continuous program of planned learning experiences designed to help students develop
 - An understanding of the business environment for personal and financial success
 - Critical thinking skills to enhance decision-making
 - Effective spoken/written communication skills

ADVANCED BUSINESS MANAGEMENT

175194 **1 credit** **Grades 11, 12** **Code: CTC**

Prerequisite: Principles of Business Management & Entrepreneurship, and completion or concurrently enrolled in Principles of Accounting and Finance

This course provides students with the knowledge that will prepare them for post-high school levels of education and entry-level positions in the work force. Focus will be on the role of business in society; the changing nature of contemporary business practices; major management concepts, theories, and theorists; the processes of management (functional, operational, and human relations); business law and ethics; and business communications. Career pathways will be examined and the use of business management knowledge in a variety of career clusters is also explored. Awareness of ethical issues and application of ethical decision-making models will be reinforced throughout the course. Students will understand the business world and be more prepared to meet their career goals and objectives.

ADVANCED COMPUTER APPLICATIONS, INTEGRATION, AND DEVELOPMENT

C17332 **1 credit** **Grades 10, 11, 12** **Code: CC**

Prerequisite: Computer Applications and Concepts

This course will teach advanced word processing and spreadsheet skills and also include an introduction to databases.

BUSINESS LAW

178002 **1 credit** **Grades 10, 11, 12**

This course explores a variety of legal topics ranging from a review of our court system and criminal law to consumer and contract law. Emphasis is placed on laws and regulations related to business activities. This course is especially recommended for students seeking a career in business administration or legal professions.

BUSINESS MANAGEMENT AND FINANCE (CAPSTONE)

175094 **1 credit** **Grade 12** **Code: CTP**

Prerequisite: Principles of Business Management & Entrepreneurship, Advanced Business Management, and completion or concurrently enrolled in Principles of Accounting and Finance

This capstone course of the Business Management and Finance sequence allows students to build on knowledge and skills gained from previous courses with a forum for analyzing, synthesizing, and implementing the skills and knowledge. It offers an opportunity to think critically about a subject of profound interest while demonstrating that they have mastered a content area and they can apply what they have learned to create a tangible product or service. Students are required to present a Capstone project to include skills such as complex problem solving, evaluation and synthesis of research, writing, communication, organization, time management, and presentation skills. Students have the opportunity to attain the A*S*K certification.

COMPUTER APPLICATIONS AND CONCEPTS

173310 **1 credit** **Grades 9, 10, 11, 12**

This course develops professional level skills necessary to use computers as tools to increase productivity in a variety of subject areas and careers. Instruction will include units on word processing skills, spreadsheets and charting, presentation graphics, and keyboarding.

ENTREPRENEURSHIP AND E-COMMERCE**178005 1 credit Grades 10, 11, 12**

This course provides students the opportunity to learn what it is like to be an entrepreneur. Students will be guided through the steps of starting and managing their own business. Students will research a variety of influences related to starting a business venture and develop a business plan to open a new business of their own choosing. Students will also explore the global use of the Internet as a business tool, evaluate elements of web-page design, and apply Internet marketing strategies to their business venture.

PRINCIPLES OF ACCOUNTING AND FINANCE**178001 1 credit Grades 10, 11, 12 Code: CTP**

This course involves analyzing, classifying, and recording business transactions in a manual and computerized environment. Emphasis is placed on understanding the complete accounting cycle and preparing financial statements for different types of business. Coverage also includes recognizing and defining basic accounting principles, concepts, and terminology using Generally Accepted Accounting Principles (GAAP) as they apply to assets, liabilities, and owner's equity.

PRINCIPLES OF BUSINESS MANAGEMENT AND ENTREPRENEURSHIP**175084 1 credit Grades 9, 10, 11, 12 Code: CTP**

This course explores the various types of businesses, as well as the major functional areas of business and interrelationships among them. Students will learn to analyze the functions of business through evaluating, planning, organizing, and controlling. Leadership styles, employee rights and responsibilities, and career opportunities will also be taught. Technology will be used to gain an understanding of the operation of a contemporary business and the role of computers in the information gathering, dissemination, and decision-making processes.

SPORTS AND ENTERTAINMENT MARKETING**178006 1 credit Grades 10, 11, 12**

This course provides organized learning experiences in marketing, management, sales, and merchandising. This course teaches core content applicable to all sport/event/recreation marketers, as well as content unique to each industry. Students will be given opportunities to practice the use of technological business tools in performing activities involving the functions and processes of marketing. This course requires students to think critically about the issues of leadership, character, security, consumer needs, and community service. Reading, writing, and project completion are integral components of this course.



CAREER & TECHNICAL EDUCATION COMPLETER PROGRAMS

Maryland State Department of Education, in partnership with statewide industry advisory groups, identified ten Career Clusters that represent core business functions across broad industry areas in Maryland. The completion of a Career Technical Program (CTP) sequence of courses within one of these clusters is one option for graduation completion. CTP Completer sequences are college and career preparation that may include certification, licensure, apprenticeship, college credit and/or work-based learning experience. Students must successfully complete each course in the selected sequence to fulfill graduation requirements through the completer option. Completer program availability varies by each high school.

Career Cluster Completer Program Course sequence	SCHOOL Credits	Career Cluster Completer Program Course sequence	SCHOOL Credits
Arts, Media, and Communication		Business Management and Finance	
Interactive Media Production	RSEC*	Business Management and Finance	ALL
Principles of Arts, Media, and Communication	1.0	Principles of Business Management and Entrepreneurship	1.0
Interactive Media and Design I	1.0	Principles of Accounting and Finance	1.0
Interactive Media and Design II	1.0	Advanced Business Management	1.0
Interactive Media Portfolio Capstone	1.0	Total	3.0
Total	4.0		
Graphic Communication	NPHS*	Career Research & Development (CRD)	ALL
Introduction to Graphic Communications	1.0	Career Research & Development	1.0
Advanced Graphic Communications	1.0	Career Development, Preparation, & Transition	1.0
Digital File Preparation & Output	2.0	Work-based Learning	2.0
Graphic Design and Screen Printing	2.0	Total	4.0
Total	6.0		
Construction & Development		Consumer Services, Hospitality, and Tourism	
Heating, Ventilation, and Air Conditioning (HVAC)	RSEC*	ProStart-Food and Beverage Management	ALL
Foundations of Building & Construction Technology (NCCER Core)	1.0	Becoming a Food Service Professional (Level 1)	1.0
HVAC Level I	1.0	Becoming a Food Service Professional (Level 2)	1.0
HVAC Level II	2.0	Practical Experience as a Food Service Professional	2.0
Work-based Learning	1.0	Total	4.0
Total	5.0		
Construction Design and Management	NPHS*	Cosmetology	NPHS*
Computer Assisted Drafting and Design (CADD)	1.0	Principles and Practice of Cosmetology	2.0
Revit: 3-D Architectural Drafting	1.0	Advanced Cosmetology-Theory and Application	4.0
Introduction to Construction Design and Management	1.0	Mastery of Cosmetology	4.0
Principles of Construction Design	1.0	Total	10.0
Advanced Design and 3D Modeling	1.0		
Advanced Construction Management	1.0	Culinary Arts	NPHS*
Advanced Construction Applications and Certification	2.0	Culinary Basics- Foundations of Professional Cooking	1.0
Total	8.0	Professional Cooking	2.0
Drafting and Design Technology	NPHS*	Advanced Professional Cooking/Baking	3.0
Introduction to Construction Development/Drafting	1.0	Total	6.0
Principle of Drafting and Construction Design	2.0		
Advanced Design and 3D Modeling	2.0		
Advanced Construction Management Design Capstone	1.0		
Total	6.0		
Electrical Construction	NPHS*	Environmental, Agricultural, and Natural Resource Systems	
Foundations of Building and Construction Technology (NCCER Core)	1.0	CASE: Natural Resources & Agriculture	MHS*
Electrical Construction 1	2.0	Introduction to Agriculture, Food, and Natural Resources (AFNR)	1.0
Electrical Construction 2	3.0	Natural Resources and Ecology	1.0
Total	6.0	Environmental Science Issues	1.0
		Agricultural Research and Development	1.0
Welding Technology	NPHS*	Total	4.0
Foundations of Building and Construction Technology (NCCER CORE)	1.0		
Welding I	2.0		
Welding II	3.0		
Total	6.0		

20 2/9/2022 C&I/Miesowitz_Jones/sml
These codes appear with course descriptions where appropriate: ATE = Advanced Technology Credit; CC = may be eligible for college credit; CTP = Maryland State Dept. of Education Approved Career Technical Program; CTC = CTP Concentrator Course; EOC = End-of-Course Assessment; FA = Fine Arts; TE = Technology Education; W = Weighted (HONORS); W*= Weighted (AP)

Career Cluster Completer Program Course sequence	SCHOOL Credits	Career Cluster Completer Program Course sequence	SCHOOL Credits
Transportation Technologies		Human Resource Services	
Automotive Technology	NPHS*, RSEC*	Air Force Junior ROTC (AFJROTC)	LHS, NPHS
Electrical Systems	1.0	AFJROTC I	1.0
Automotive HVAC	0.5	AFJROTC II	1.0
Transmissions (Automatic & Manual)	0.5	AFJROTC III	1.0
Brakes	1.0	AFJROTC IV*	1.0
Suspension & Steering	1.0	Total	4.0
Engine Performance	1.0		
Engine Repair	1.0	Army Junior ROTC (AJROTC)	MHS, TSHS
Total	6.0	Leadership Education Training (LET) 1	1.0
		Leadership Education Training (LET) 2	1.0
Autobody/Collision Repair Technician	NPHS*	Leadership Education Training (LET) 3	1.0
Safety Procedures	1.0	Leadership Education Training (LET) 4*	1.0
Estimating and Blueprinting	1.0	Total	4.0
Non-Structural Analysis and Damage Repair	1.0		
Painting and Refinishing	1.0	Naval Junior ROTC (NJROTC)	LPHS, WHS
Structural Analysis and Damage Repair	1.0	NJROTC I	1.0
Quality Control and Job Placement	1.0	NJROTC II	1.0
Total	6.0	NJROTC III	1.0
		NJROTC IV*	1.0
		Total	4.0
		Marine Corps Junior ROTC (MCJROTC)	SCHS
		MCJROTC I	1.0
		MCJROTC II	1.0
		MCJROTC III	1.0
		MCJROTC IV*	1.0
		Total	4.0

* = this course is optional in completer program sequence

ALL = All CCPS High Schools

LHS = Lackey High School

LPHS = La Plata High School

RSEC* = Robert D. Stethem Educational Center – Application Process

NPHS* = North Point High School – Application Process

MHS* = McDonough High School – Application Process

MHS = McDonough High School

NPHS = North Point High School

SCHS = St. Charles High School

TSHS = Thomas Stone High School

WHS = Westlake High School

Information on other completer programs offered at North Point High School for Science, Technology, and Industry is published in the Guide to Career Majors available on the school website at:

<http://www.ccboe.com/schools/northpoint/images/pdfs/GCMajors.pdf>

Information on the completer programs offered at the Robert D. Stethem Educational Center is on page 35 and available on the school website at:

<http://www.ccboe.com/schools/stethem/>

Information on the CASE program offered at Maurice J. McDonough High School is available on the school website at:

<https://www.ccboe.com/schools/mcdonough/index.php/login/cte-case-program>

CAREER CLUSTER – HEALTH AND BIOSCIENCES

BIOMEDICAL SCIENCES (PROJECT LEAD THE WAY)

The challenging and relevant four (4) course PLTW Biomedical Science sequence allows students to investigate the roles of biomedical professionals as they study the concepts of human medicine, physiology, genetics, microbiology, and public health. Students engage in activities like investigating the death of a fictional person to learn content in the context of real-world cases. They examine the structures and interactions of human body systems and explore the prevention, diagnosis, and treatment of disease; all while working collaboratively to understand and design solutions to the most pressing health challenges of today and the future. Each course in the Biomedical Science sequence builds on the skills and knowledge students gain in the preceding courses.

Required Courses: All four (4) of the following courses are required to achieve Completer Status.

PRINCIPLES OF THE BIOMEDICAL SCIENCES

130840 **1 credit** **Grades 9, 10** **Code: CTP**

Prerequisite: Concurrent enrollment in Honors Biology and completion or concurrent enrollment in Algebra I

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

HUMAN BODY SYSTEMS (HONORS)

130850 **1 credit** **Grades 10, 11** **Codes: CTP, W**

Prerequisite: Principles of the Biomedical Sciences and concurrent enrollment in Chemistry

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

MEDICAL INTERVENTIONS (HONORS)

130860 **1 credit** **Grades 11, 12** **Codes: CTC, W**

Prerequisite: Completed or concurrently enrolled in Human Body Systems

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

BIOMEDICAL INNOVATIONS (CAPSTONE)

130870 **1 credit** **Grade 12** **Codes: CTP, CC, W***

Prerequisite: Medical Interventions

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.

CAREER CLUSTER – BUSINESS MANAGEMENT & FINANCE

BUSINESS MANAGEMENT

The Business Management program prepares students for a career in business administration and management. A student who completes this program will be able to develop and manage a business plan for a small business. Students will apply accounting, marketing, and management concepts to realistic business scenarios. Students will be prepared to work as a management trainee, manage a small business, or continue their education in business administration after graduation.

Required Courses: Three of the following courses and one (1) Final Course are required to achieve Completer Status. See State Approved Career and Technical Education Completer Programs Chart for details.

PRINCIPLES OF BUSINESS MANAGEMENT AND ENTREPRENEURSHIP

175084 **1 credit** **Grades 9, 10, 11, 12** **Code: CTP**

This course explores the various types of businesses as well as the major functional areas of business and interrelationships among them. Students will learn to analyze the functions of business through evaluating, planning, organizing, and controlling. Leadership styles, employee rights and responsibilities, and career opportunities will also be taught. Technology will be used to gain an understanding of the operation of a contemporary business and the role of computers in the information gathering, dissemination, and decision-making processes.

PRINCIPLES OF ACCOUNTING AND FINANCE

178001 **1 credit** **Grades 10, 11, 12** **Code: CTP**

This course involves analyzing, classifying, and recording business transactions in a manual and computerized environment. Emphasis is placed on understanding the complete accounting cycle and preparing financial statements for different types of business. Coverage also includes recognizing and defining basic accounting principles, concepts, and terminology using Generally Accepted Accounting Principles (GAAP) as they apply to assets, liabilities, and owner's equity.

ADVANCED BUSINESS MANAGEMENT

175194 **1 credit** **Grades 11, 12** **Code: CTC**

Prerequisite: Principles of Business Management & Entrepreneurship, and completion or concurrently enrolled in Principles of Accounting and Finance

This course provides students with the knowledge that will prepare them for post-high school levels of education and entry-level positions in the work force. Focus will be on the role of business in society; the changing nature of contemporary business practices; major management concepts, theories, and theorists; the processes of management (functional, operational, and human relations); business law and ethics; and business communications. Career pathways will be examined and the use of business management knowledge in a variety of career clusters is also explored. Awareness of ethical issues and application of ethical decision-making models will be reinforced throughout the course. Students will understand the business world and be more prepared to meet their career goals and objectives.

CAREER CLUSTER – BUSINESS MANAGEMENT & FINANCE

CAREER RESEARCH AND DEVELOPMENT

Career Research and Development is a program that consists of two (2) in-school courses, a portfolio development project, and a work-based learning experience. Through both classroom instruction and work-based learning, Career Research and Development provides students with the academic, technical, and job skills necessary for further education and employment in a career field of their interest.

Required Courses: All three (3) of these courses are required to achieve Completer Status.

CAREER RESEARCH AND DEVELOPMENT – COURSE I

174444 1 credit Grade 11 Code: CTP

This course requires students to research careers and explore educational program choices. Students will be introduced to basic concepts of personal financial literacy and gain an understanding of successful career planning using career clusters and pathways. Students will also be required to develop a portfolio and participate in the interview process.

CAREER DEVELOPMENT, PREPARATION, AND TRANSITION – COURSE II

174454 1 credit/class instruction Grade 12 Code: CTP

174455 2 credits/work-based learning Grade 12 Code: CTC

Prerequisite: Career Research and Development Course I, students must be enrolled in both CDR II courses concurrently

This program includes a one-credit course and a two-credit work-based learning experience of ten hours per week of employment and training. Coursework includes career selection, job searches, workplace readiness, employer expectation, personal financial literacy, and problem resolution. Students continue building their career portfolio and will use the portfolio in the interview process.

CAREER CLUSTER – ENVIRONMENTAL, AGRICULTURAL, AND NATURAL RESOURCES SYSTEMS

CASE: Natural Resources & Agriculture

Curriculum for Agriculture Science Education (CASE) utilizes the Agriculture, Food, and Natural Resource (AFNR) standards to create pathways relevant in today's workforce. All courses are also aligned with Science, English, and Mathematics standards. The Natural Resources Pathway begins with the Introduction to Agriculture, Food, and Natural Resource course. Students then progress to the foundation level course, Natural Resources and Ecology followed by the specialization course, Environmental Science Issues. The pathway culminates with the capstone course, Agricultural Research and Development.

INTRODUCTION TO AGRICULTURE, FOOD, AND NATURAL RESOURCES (AFNR)

177014 1 credit Grade 10 Code: CTP

Introduction to Agriculture, Food, and Natural Resources (AFNR) introduces students to the range of agricultural opportunities and the pathways of study they may pursue. Science, mathematics, reading, and writing components are woven in the context of agriculture. Experiences will involve the study of communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics. While surveying 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.

NATURAL RESOURCES AND ECOLOGY (HONORS)

177024 1 Credit Grade 11 Code: CTP, W

Prerequisite: Introduction to Agriculture, Food, and Natural Resources and concurrently enrolled in Environmental Science Issues

The *Natural Resources and Ecology* course is a foundation course within the CASE sequence of courses. The course provides students a variety of experiences in the fields of natural resources and ecology. Students will explore hands-on projects and activities while studying topics such as land use, water quality, stewardship, and environmental agencies. Study of the natural world, including biomes, land, air, water, energy, use and care, as well as a focus on issues surrounding man's interaction with the Earth, will be addressed in this course. Students will select an ecosystem to study throughout the course and apply principles of natural resources and ecology from each unit of study to that ecosystem.

ENVIRONMENTAL SCIENCE ISSUES (HONORS)

177034

1 Credit

Grade 11

Codes: CTC, W

***Prerequisite:* Introduction to Agriculture, Food, and Natural Resources and concurrently enrolled in Natural Resource and Ecology**

The *Environmental Science Issues* course is a specialization-level course that enables students to research, analyze, and propose sustainable solutions to environmental issues. Students are immersed in inquiry-based exercises filled with activities, projects, and problems, which develop data acquisition and analysis techniques, critical thinking and evaluation abilities related to environmental issues, as well as independent research and problem solving.

AGRICULTURAL RESEARCH AND DEVELOPMENT

177044

1 Credit

Grade 12

Codes: CTC, W*

***Prerequisite:* Natural Resource and Ecology and Environmental Science Issues**

Agricultural Research and Development is the capstone course designed to culminate students' experiences in agriculture, based on the previously taken courses in the Natural Resources Pathway. Woven throughout the course are projects and problems based in practical applications and designed to develop and improve employability skills of students. Students will further enhance critical thinking and teamwork skills as they expand on content knowledge from previous CASE courses.

CAREER CLUSTER – COMPUTER AND INFORMATION SCIENCES**COMPUTER SCIENCE**

The Computer Science program includes a sequence of four courses, starting with an overview of the Computing and Information Technology (IT) field and processing through a more in-depth study of Computer Science. Students will learn all aspects of Computer Science, including programming, networks, graphics, databases, cyber security, artificial intelligence, and other applications in IT.

Required Courses: All three (3) of the following courses are required to achieve Completer Status.**See State Approved Career and Technical Education Program Chart for details.****INTRODUCTION TO COMPUTER PROGRAMMING (HONORS)**

179000

1 credit

Grades 9, 10, 11, 12

Codes: W, CTP

***Prerequisite:* Completion or concurrent enrollment in Algebra I**

The goal of this course is to prepare and provide students the skill sets for the AP Computer Science Principles and the AP Computer Science A courses. The emphasis is on solving real-world problems by means of computer programming using the following languages: Java, JavaScript, and Python. Topics will include object-oriented design techniques, classes, objects, data types, control statements (selection and iteration), and arrays. Emphasis will be placed on computer science skills, problem solving, algorithm design, and documentation.

ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES

179060

1 credit

Grades 10, 11, 12

Codes: TE, W*, CTP

This course introduces foundational concepts of computer science and explores computing's impact on the world. It focuses on creative problem solving and real-world applications. The course teaches use of computational tools to analyze and develop computational artifacts and computational thinking practices including abstraction, collaborative problem solving, and communication. This course is designed to support student preparation of the two projects required to be submitted to the College Board and prepares them for the end of the year exam. This course cannot be used as the TE requirement for graduation if taken as part of the Computer and Information Sciences pathway.

ADVANCED PLACEMENT COMPUTER SCIENCE A

179030

1 credit

Grades 10, 11, 12

Codes: W*, CTC

17903E

1 credit

Grades 10, 11, 12

***Prerequisite:* Introduction to Computer Programming or approval of instructor**

This course designed to prepare students for the AP Computer Science A examination. The course emphasizes content comparable to a first college course in programming for Computer Science majors. Using the Java programming language, the course introduces program design including static and object oriented programming. It also introduces data structures, searching and sorting algorithms, and algorithm comparison.

CAREER CLUSTER – HUMAN RESOURCE SERVICES

MARYLAND FIRE AND RESCUE INSTITUTE

Students will have an opportunity to participate in a career and technology program related to fire prevention and control and emergency medical technology. The program includes classroom instruction as well as formal training at selected local fire companies. Students are required to complete a minimum of 393 hours of work-based learning and take the seven certification exams. This CTE pathway program is designed to allow students to complete all requirements and be certified in this area as well as have opportunities to earn college credit.

FIRE EMERGENCY MEDICAL TRAINING I

C17814 **2 credits** **Grades 11, 12** **Codes: CC, CTP**

Students will complete a minimum number of hours and level of understanding in the following topics: Emergency Medical Technician or Emergency Medical Responder, Fire Fighter I, Truck Company Fireground Operations, and Hazardous Materials Operations.

FIRE EMERGENCY MEDICAL TRAINING II

C17824 **2 credits** **Grades 11, 12** **Codes: CC, CTC**

Students will complete a minimum number of hours and level of understanding in the following topics: Fire Fighter II, Rescue Technician – Site Operations, and Rescue Technician – Vehicle and Machinery Extrication.

CAREER CLUSTER – MANUFACTURING, ENGINEERING AND TECHNOLOGY

PATHWAY TO ENGINEERING (PROJECT LEAD THE WAY)

In the Project Lead the Way Engineering, students engage in open-ended problem solving, learn and apply the engineering design process, and use the same industry-leading technology and software as are used in the world's top companies. Students are immersed in design as they investigate topics such as sustainability, mechatronics, forces, structures, aerodynamics, digital electronics and circuit design, manufacturing, and the environment, which gives them an opportunity to learn about different engineering disciplines before beginning post-secondary education or careers.

Required Courses: All four (4) of the following courses and one (1) Specialization Course are required to achieve Completer Status.

INTRODUCTION TO ENGINEERING DESIGN

130740 **1 credit** **Grades 9, 10** **Codes: TE, CTP**

Prerequisite: Completion or current enrollment in Algebra I

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

PRINCIPLES OF ENGINEERING (HONORS)

130730 **1 credit** **Grades 10, 11** **Codes: CTP, W**

Prerequisite: Introduction to Engineering Design and Algebra I

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

DIGITAL ELECTRONICS (HONORS)

130750 **1 credit** **Grades 11, 12** **Codes: CTP, W**
13075E **1 credit** **Grades 11, 12**

Prerequisite: Principles of Engineering and Introduction to Engineering Design OR Introduction to Computer Programming

This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. From smart phones to appliances, digital circuits are all around us. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.

ENGINEERING DESIGN AND DEVELOPMENT (CAPSTONE)

130780 **1 credit** **Grade 12** **Codes: CC, CTP, W***

Prerequisite: Principles of Engineering, Introduction to Engineering Design, completed or currently enrolled in Digital Electronics and one other PLTW specialization courses

The knowledge and skills students acquire throughout Project Lead the Way Engineering come together in Engineering Design and Development (EDD) as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Completing EDD allows students to apply the professional skills they have developed in a real world situation.

Specialization Courses: At least one (1) of the courses below and all four (4) of the above courses must be taken to achieve Completer Status. Additional courses can be taken as electives if schedules permit.

AEROSPACE ENGINEERING

130770 **1 credit** **Grades 11, 12** **Codes: CTC, W***

Prerequisite: Principles of Engineering and Introduction to Engineering Design and completed or currently enrolled in Digital Electronics

This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts of life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles.

CIVIL ENGINEERING AND ARCHITECTURE

130751 **1 credit** **Grades 11, 12** **Codes: CTC, W***

Prerequisite: Principles of Engineering, Introduction to Engineering Design, completed or currently enrolled in Digital Electronics

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software.

COMPUTER INTEGRATED MANUFACTURING

130760 **1 credit** **Grades 11, 12** **Codes: CTC, W***

Prerequisite: Principles of Engineering, Introduction to Engineering Design, completed or currently enrolled in Digital Electronics

This course introduces students to the high tech, innovative nature of modern manufacturing. Manufactured items are part of everyday life and the course highlights opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. Students can earn a virtual manufacturing badge recognized by the National Manufacturing Badge system.

CAREER CLUSTER – CONSUMER SERVICES, HOSPITALITY & TOURISM

PROSTART – FOOD AND BEVERAGE MANAGEMENT

The ProStart program introduces high school students to a wide variety of careers within the restaurant, food service, and hospitality industry. Students will study and practice professional food preparation, preparation of international cuisines, food safety and sanitation, customer service relations, accounting, cost control, marketing, and an introduction to aspects of lodging management. Students will build strong culinary, business, management, and workplace skills as a result of their participation in this program. The National Restaurant Association Education Foundation (NRAEF) designed the program's industry driven curriculum.

Required Courses: All three (3) of these courses are required to achieve Completer Status.

BECOMING A FOOD SERVICE PROFESSIONAL (LEVEL 1)

Prerequisite: Food and Nutrition Science

131114 **1 credit** **Grades 10, 11** **Code: CTP**

This course provides an introduction to the food service and hospitality industry. Students develop and demonstrate skills in safe and sanitary food handling and preparation techniques. Students learn to prepare a variety of foods. They develop a broad understanding of the variety of career options available in the food service and hospitality industry, and have the opportunity to earn the ServeSafe credential. Students can begin to accrue hours to meet the 400-hour work-based learning

experience requirement. Of the 400 hours, 150 hours can be earned through in-class clinical experience. All students enrolled in the course must take the NRAEF end-of-course exam.

BECOMING A FOOD SERVICE PROFESSIONAL (LEVEL 2)

Prerequisite: Becoming a Food Service Professional (Level 1)

131124 1 credit Grades 11, 12 Code: CTP

Students enrolled in this course will continue to prepare a variety of foods. They will create menus and demonstrate various types of restaurant service. They will apply purchasing techniques and demonstrate an understanding of inventory monitoring and control. Students will have the opportunity for an authentic, mentored work-based learning experience. Students can continue to accrue hours to meet the 400-hour work-based learning experience requirement. Of the 400 hours, 150 hours can be earned through in-class clinical experience. All students enrolled in the course must take the NRAEF end-of-course exam.

PRACTICAL EXPERIENCE AS A FOOD SERVICE PROFESSIONAL

Prerequisite: Becoming a Food Service Professional (Level 1) and concurrently enrolled in Becoming a Food Service Professional (Level 2)

131125 2 credits Grade 12 Code: CTC

This course provides students the opportunity to further refine and apply skills that support all aspects of the hospitality industry. It will assist in preparing students for employment and advancement in the field of hospitality and food and beverage management. Students will complete an industry-mentored work-based learning experience.

CAREER CLUSTER – HUMAN RESOURCE SERVICES

TEACHER ACADEMY OF MARYLAND

The Teacher Academy of Maryland (TAM) program prepares high school students for post-secondary education and other careers in the education profession. TAM is a three year, four-course program for students planning to pursue a career in education. Upon successful completion of the four TAM courses, students will receive credits designed to matriculate to a Maryland post-secondary teacher education program. Students will take the Para-Pro exam in preparation for entry into the workforce in the field of education.

TEACHING AS A PROFESSION

120544 1 credit Grades 10, 11 Code: CTP

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 participate in guided observations and field experience 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 senior year internship.

HUMAN GROWTH AND DEVELOPMENT THROUGH ADOLESCENCE

120534 1 credit Grades 10, 11 Code: CTP

Prerequisite: Completion or concurrent enrollment in Teaching as a Profession

This course focuses on human development from birth through adolescence. Emphasis is placed on theories of physical, cognitive, social and emotional development, the effect of heredity and the environment, the role of caregivers and the family, health and the environment, 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 components of a working portfolio to be assembled upon completion of the senior year internship.

FOUNDATIONS OF CURRICULUM AND INSTRUCTION

120564 1 credit Grade 12 Code: CTC

Prerequisite: Teaching as a Profession, concurrently enrolled in Education Academy Internship

This course explores curriculum delivery models in response to the developmental needs of 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 continue to develop the components of a working portfolio to be assembled upon

completion of the senior year internship.

EDUCATION ACADEMY INTERNSHIP (HONORS)

120574

1 credit

Grade 12

Codes: CC, CTP, W

Prerequisite: Concurrently enrolled in Foundations of Curriculum and Instruction

This internship is the culminating course of the TAM 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 complete their working portfolio and present it for critique. Students have the opportunity to earn certification by taking PRAXIS I or Parapro.

CAREER CLUSTER – HUMAN RESOURCE SERVICES

AIR FORCE JUNIOR ROTC (AFJROTC)

Air Force Junior ROTC (AFJROTC) is offered at Henry E. Lackey High School and North Point High School for Science, Technology, and Industry. This program offers a four-year curriculum. The AFJROTC mission is to educate and train high school students in citizenship; promote community service; instill responsibility, character and self-discipline; and provide instruction in air and space fundamentals. The central goal is to build better citizens. The course is affiliated with the Air Force; however, there is no military obligation associated with this course.

AFJROTC is open to all students, but to remain in the course, students must meet the weekly uniform wear and personal appearance standards of the Air Force. Uniforms are provided at no expense to the student. A fee may be required for uniform accessories and maintenance.

Although it is not a course requirement, AFJROTC students may participate in some of the following AFJROTC extra-curricular activities: Drill Team, Color Guard, Kitty Hawk Air Society, Rocket Club, parades, community service projects, Dining-In, Pass-In Review, drill competitions, awards banquets, and field trips.

Students who successfully complete a minimum of two years of AFJROTC and enlist in the military will enter the service at a higher pay grade (varies with each service).

AFJROTC I

188021

1 credit

Grades 9, 10, 11, 12

Code: CTP

AFJROTC I, is the beginning level course. It is a full-year course that earns one elective credit towards graduation. AFJROTC I, is open to all students in all grade levels. During AFJROTC I, students will study The Heritage of Flight and The Development of Air Power, Air Force Customs and Courtesies, Flag Honors, Air Force Uniform and Personal Appearance Standards, Personal Development Skills, Attitude and Discipline, Study Habits, and Health Awareness.

AFJROTC II

188022

1 credit

Grades 10, 11, 12

Code: CTC

Prerequisite: AFJROTC I

AFJROTC II, is the second level course in AFJROTC. It is a full-year course that earns one elective credit towards graduation. During AFJROTC II, students will study The Aerospace Environment, Human Requirements of Flight, Principles of Aircraft Flight, Principles of Navigation, Effective Communications, Understanding Individual Behavior, Understanding Group Behavior, and Basic Leadership Concepts. Additionally, AFJROTC II students will be given responsibilities within the Cadet Group that will provide opportunities to demonstrate leadership skills and knowledge of Air Force Customs and Courtesies. All AFJROTC II students will be expected to improve their military drill skills, attitude, and self-discipline.

AFJROTC III

188023

1 credit

Grades 11, 12

Code: CTP

Prerequisite: AFJROTC II

AFJROTC III, is the third level AFJROTC course. During AFJROTC III, students will study The Space Environment, Space Programs, Space Tech, Manned Spaceflight, Management Theories, Stress and Finance Management, Ethics, and Citizenship. AFJROTC III students are expected to apply leadership skills by holding key leadership positions within the Cadet Group. AFJROTC III students will continue to improve drill skills, military bearing, citizenship, and self-discipline.

AFJROTC IV**188024****1 credit****Grade 12*****Prerequisite: AFJROTC III***

AFJROTC IV, is the fourth level course in AFJROTC. It is a full-year course that earns one elective credit. During AFJROTC IV, students will study Air Force Policy and Organization, Planning for the Future, Civilian Careers, Careers in Aviation, and Military Service Centers. AFJROTC IV Cadets will manage the Cadet staff, publish the Cadet Newsletter, assess individual cadet performance, and evaluate Flight activities demonstrating their leadership, drill, and citizenship skills.

AIR FORCE DRILL AND CEREMONY I**189021****1 credit****Grades 10, 11, 12*****Prerequisite: AFJROTC I*****AIR FORCE DRILL AND CEREMONY II****189022****1 credit****Grades 11, 12*****Prerequisite: Air Force Drill and Ceremony I*****AIR FORCE DRILL AND CEREMONY III****189023****1 credit****Grade 12*****Prerequisite: Air Force Drill and Ceremony II***

These elective JROTC courses are designed for students who are interested in participating in and performing in regulation and exhibition drill competition. Students will develop an understanding of leadership and peer instruction. They will have the opportunity to plan, organize, and execute drill team routines, drill meets, flag presentations, and other ceremonial events.

ARMY JUNIOR ROTC (AJROTC)

Army Junior ROTC (AJROTC) is offered at Maurice J. McDonough High School and Thomas Stone High School. This program offers a four-year curriculum. The AJROTC mission is to educate and train high school students in citizenship; promote community service; and instill responsibility, character and self-discipline. This course is affiliated with the Army; however, there is no military obligation associated with this course.

The Army JROTC curriculum is divided into six units: Citizenship in Action; Leadership Theory and Application; Foundations for Success; Wellness, Fitness, and First Aid; Geography and Earth Science; and Citizenship in American History and Government.

AJROTC is open to all students, but to remain in the course, students must meet the weekly uniform wear and personal appearance standards of the U.S. Army. Uniforms are provided at no expense to the student. A fee may be required for uniform accessories and maintenance.

Although not a course requirement, AJROTC students may participate in the following AJROTC extra-curricular activities: Drill Team, Color Guard, Raider Team, and Rifle Team.

Students who successfully complete a minimum of two years of AJROTC and enlist in the military may enter the service at a higher pay grade (varies with each service).

LEADERSHIP EDUCATION TRAINING (LET) 1**188031****1 credit****Grades 9, 10, 11, 12****Code: CTP**

LET 1, or the first year course, is an introduction to leadership training. Included are the following subjects: Introduction to JROTC and the Army, Techniques of Communications/Methods, Leadership, Cadet Challenge Competition and Physical Conditioning, Leadership Lab/Management Skills (Drill), Citizenship, Career Opportunities, History of US Citizens, First Aid and Cardio-Pulmonary Resuscitation, Map Reading, Marksmanship and Firearms Safety, and US Army Customs and Courtesies. Additionally, one may want to participate in such extra-curricular activities as Drill Team, Color Guard, Raider Team, and Rifle Team. These activities include going on field trips to drill competitions, parades, and civic activities. During the summer period, selected cadets will attend an Army Summer Camp. During this camp, cadets will be on an Army post practicing those subjects studied during the school year.

LEADERSHIP EDUCATION TRAINING (LET) 2**188032****1 credit****Grades 10, 11, 12****Code: CTC*****Prerequisite: LET 1***

LET 2, the second year of leadership, education and training, stresses intermediate leadership development. The emphasis is placed on training the cadets in the techniques of being a leader in a small unit. The cadet is given many opportunities to take command of small groups of cadets in order to lead them in the accomplishment of a common goal. Cadets receive training in the following subjects during the second year of the program: Techniques of Communications/Methods, Leadership, Cadet Challenge Competition and Physical Conditioning, Leadership Lab/Management Skills (Drill), Citizenship, First Aid, Map Reading, Role of the US Armed Forces, Technology Awareness, Self-Image, and Marksmanship and Firearms Safety. During the summer period, selected cadets will attend an Army Summer Camp. During this camp, cadets will be on an Army post practicing those subjects studied during the school year.

LEADERSHIP EDUCATION TRAINING (LET) 3**188033****1 credit****Grades 11, 12****Code: CTP*****Prerequisite: LET 2***

LET 3, the third year, is where one applies learned leadership skills. The cadet assumes greater responsibilities of leadership. The cadet positions are normally filled by cadets of this class and they will have an opportunity to practice the leadership theories taught in the preceding years. Instruction in the finer techniques of leadership, including delegation of authority and supervision of subordinates, highlight this year's instruction. The cadet staff officers under the supervision of the Executive Officer will perform all the cadet administration required to keep the Corps of Cadets functioning smoothly. In addition to the same courses taught in previous years, the third year cadets get additional training in Human Relations, Staff Methods/Procedures, and The US Army Skill Qualification Test (SQT). During the summer period, selected cadets will attend an Army Summer Camp. During this camp, cadets will be on an Army post practicing those subjects studied during the school year.

LEADERSHIP EDUCATION TRAINING (LET) 4**188034****1 credit****Grade 12*****Prerequisite: LET 3***

LET 4, is the fourth year in which the Cadets take the leadership of the Corps of Cadets. They are responsible for the direction and guidance of the Corps of Cadets. They will exercise this leadership by assisting in the conduct of training for the LET 1 cadets. This course will include in addition to the standard subjects: American Military History, Touring Historic Battlefields, Ethics, the Military and You, Job-Finding Techniques, and Command and Staff Procedures. In addition to the subjects taught in class, the JROTC program has several field trips to military installations.

NAVAL JUNIOR ROTC (NJROTC)

Naval Junior ROTC (NJROTC) is offered at La Plata High School and Westlake High School. This program offers a four-year curriculum. A student may begin this as a Naval Science I Cadet (entry level) at the freshman, sophomore, junior, or senior level.

The purpose of the NJROTC program is to instill in high school students the values of citizenship and service to the community; to develop a high degree of personal honor, self-reliance, individual discipline and leadership; to promote an understanding of the basic elements and requirements for national security; to promote habits of orderliness and precision; and to develop respect for constituted authority.

NJROTC is open to all students, but to remain in the course, students must meet the weekly uniform wear and personal appearance standards of the U.S. Navy. Uniforms are provided at no expense to the Cadet. It must be professionally maintained and returned at the end of the school year. A fee may be required for uniform accessories and maintenance. Extra-curricular activities that cadets can volunteer to participate in are: Armed Drill Team, Color Guard, Unarmed Drill Team, Air Rifle Team, parades, community service projects, drill competitions, Athletic Team, Academic Team, and field trips.

Students who successfully complete two years of NJROTC and enlist in the military will enter the service at a higher pay grade (varies with each service).

NJROTC I**188011****1 credit****Grades 9, 10, 11, 12****Code: CTP**

NJROTC I, is the beginning level course. It is a full-year course that earns one elective credit towards graduation. NJROTC

I, is open to all students in all grade levels. During NJROTC I, students will study The NJROTC Program, Introduction to Leadership, Military Drill and Ceremonies, Naval Ships: Missions and Organizations, The Nation, Navy and People in an American Democracy, Sea Power and Maritime Geography, Oceanography, Naval History Through 1915, The Early Years, Introduction to Navigation and Time, Basic Seamanship, and Health Education: First Aid, Drugs, Alcohol, and Tobacco.

NJROTC II

188012 **1 credit** **Grades 10, 11, 12** **Code: CTC**

Prerequisite: NJROTC I

NJROTC II, is the second level of NJROTC. It is a full-year course that earns one elective credit towards graduation. During NJROTC II, students will study Military Drill and Ceremonies, Leadership in NJROTC, Naval Orientation and Career Planning, Citizenship in the US and Other Countries, Naval History: 1815 Through World War I, Naval Ship Construction and Damage Control, Naval Weapons: Gunnery, Guided Missiles, Mines, Oceanography, Navigation Fundamentals and Rules of the Road, Small Boat Seamanship, and Survival Training and Orienteering. Second year students begin filling junior leadership positions in the operation and administration of the NJROTC unit.

NJROTC III

188013 **1 credit** **Grades 11, 12** **Code: CTP**

Prerequisite: NJROTC II

NJROTC III, is the third level of NJROTC. It is a full-year course that earns one elective credit towards graduation. During NJROTC III, students will study Military Drill and Ceremonies, Naval Leadership, Military Justice, Astronomy, International Law and the Sea, Sea Power and National Security, Naval History: World War II to Desert Storm, Meteorology and Weather, Naval Operations, Communications and Intelligence, Maneuvering Board, Challenges of the Future, and Electricity and Naval Electronics. Third year students are expected to fill cadet leadership positions in the operation and administration of the NJROTC unit.

NJROTC IV

188014 **1 credit** **Grade 12**

Prerequisite: NJROTC III

NJROTC IV, is the fourth level NJROTC. It is a full-year course that earns one elective credit towards graduation. During NJROTC IV, students will study Military Drill and Ceremonies, Fundamentals of Leadership, The Responsibilities and Qualities of Leadership, and Achieving Effective Communications. Fourth year students are required to fill cadet leadership positions in the operation and administration of the NJROTC unit.

NAVY DRILL AND CEREMONY I

189011 **1 credit** **Grades 10, 11, 12**

Prerequisite: NJROTC I

NAVY DRILL AND CEREMONY II

189012 **1 credit** **Grades 11, 12**

Prerequisite: Navy Drill and Ceremony I

NAVY DRILL AND CEREMONY III

189013 **1 credit** **Grade 12**

Prerequisite: Navy Drill and Ceremony II

These elective JROTC courses are designed for students who are interested in participating in and performing in regulation and exhibition drill competition. Students must meet CCPS extracurricular eligibility requirements, and meet military appearance standards. Students will develop an understanding of leadership and peer instruction. They will have the opportunity to plan, organize and execute drill team routines, drill meets, flag presentations, and other ceremonial events.

MARINE CORPS JUNIOR ROTC (MCJROTC)

Marine Corps Junior ROTC (MCJROTC) is offered at St. Charles High School. This program offers a four-year curriculum. The MCJROTC mission is to educate and train high school students in citizenship, promote community service, and instill responsibility, character, and self-discipline. This course is affiliated with the Marine Corps; however, there is no military obligation associated with this course.

The Marine Corps JROTC curriculum is divided into several areas: leadership, citizenship, physical fitness, first aid and hygiene, marksmanship safety, general military subjects, career opportunities, and the history and role of the U.S. Marine Corps.

MCJROTC is open to all students, but to remain in the course, students must meet the weekly uniform wear and personal appearance standards of the U.S. Marine Corps. Uniforms are provided at no expense to the student. A fee may be required for uniform accessories and maintenance.

Although not a course requirement, MCJROTC students may participate in the following MCJROTC extra-curricular activities: Drill Team, Color Guard, and Rifle Team.

Students who successfully complete a minimum of two years of MCJROTC and enlist in the military may enter the service at a higher pay grade (varies with each service).

MCJROTC I

188041 1 credit Grades 9, 10, 11, 12 Code: CTP

MCJROTC I, the first year leadership course, is an introduction to leadership training. Included are the following broad subjects: History and Customs of the Marine Corps, Leadership, Citizenship, Personal Growth and Responsibility, and General Military Subjects, including drill and marksmanship. Additionally, students may elect to participate in such extra-curricular activities as Drill Team, Color Guard, and Rifle Team. These activities include going on field trips to drill competitions, parades, and civic activities. During the summer, selected cadets will attend a Marine Corps Summer Camp. During this camp, cadets will be on a military post practicing those subjects studied during the school year.

MCJROTC II

188042 1 credit Grades 10, 11, 12 Code: CTC

Prerequisite: MCJROTC I

MCJROTC II, the second year of leadership, education and training, stresses intermediate leadership development. The emphasis is placed on training the cadets in the techniques of being a leader in a small unit. The cadet is given many opportunities to take command of small groups of cadets in order to lead them in the accomplishment of a common goal. In addition to a continued focus on concepts taught in the first year of the program, cadets receive training in the following subjects during the second year: The Role of NCOs/Officers, Marine Discipline, Forms and Systems of Government, and additional General Military Subjects. During the summer, selected cadets will attend a Marine Corps Summer Camp. During this camp, cadets will be on a military post practicing those subjects studied during the school year.

MCJROTC III

188043 1 credit Grades 11, 12 Code: CTP

Prerequisite: MCJROTC II

MCJROTC III, the third year of leadership training, allows cadets to apply learned leadership skills. Cadets assume greater responsibilities of filling leadership positions, providing them an opportunity to practice the leadership theories taught in the preceding years. Instruction in the finer techniques of leadership, including delegation of authority and supervision of subordinates, highlight this year's instruction. The cadet staff officers will perform all the cadet administration required to keep the unit functioning smoothly. In addition to the courses taught in previous years, third year cadets receive additional training in Leadership Styles, Service Etiquette, Public Service, and General Military Subjects. During the summer, selected cadets will attend a Marine Corps Summer Camp. During this camp, cadets will be on a military post practicing those subjects studied during the school year.

MCJROTC IV

188044 1 credit Grade 12

Prerequisites: MCJROTC III or approval of instructor

MCJROTC IV, the fourth year of leadership training, builds on the foundations developed in MCJROTC III and continues to

introduce advanced leadership instruction with emphasis on motivation and discipline. This course will provide cadets with elevated opportunities to exercise leadership, citizenship, personal growth, appearance and responsibility, career awareness, and general military subjects. Basic instruction on military law and land navigation are also introduced. Physical fitness is enhanced to include planning and supervision. Minimum performance requirements for the course are based on successful completion of competencies according to the national Marine Corps JROTC curriculum.

CAREER AND TECHNICAL EDUCATION PROGRAMS ROBERT D. STETHEM EDUCATIONAL CENTER



The Robert D. Stethem (RDS) Educational Center Career and Technical Education (CTE) programs offer a variety of career related courses for students considering post-secondary options. The CTE programs housed at RDS offer students the opportunity to earn National Certification in a specific career field.

CTE students attend their zoned high school for ½ a day and RDS for ½ a day for their chosen CTE program for two years. Because not all courses fulfill graduation requirements, interested students must consult carefully with their high school counselors in the planning process. Students must complete an application for enrollment and must:

- Earn a minimum of 12 credits,
- Pass two of the four math courses required for graduation

CAREER AND TECHNICAL EDUCATION COMPLETER PROGRAMS

CAREER CLUSTER – TRANSPORTATION TECHNOLOGIES

AUTOMOTIVE TECHNOLOGY

The Automotive Technology Program incorporates the Automotive Service Excellence (ASE) program certification standards and the National Automotive Technicians Education Foundation (NATEF) task lists. Automotive Service Excellence (ASE) certifications should include: Engine Repair, Engine Performance, Electrical/Electronic Systems, Brakes, Heating and Air Conditioning, Suspension and Steering, Manual Drive Train and Axels, and Automatic Transmissions. Students are required to take the National Automotive Student Skills Standards Assessment (NA3SA) technical skills assessments for Suspension and Steering, Brakes, Engine Repair, Electrical Systems, Automotive HVAC, and Transmissions. The program prepares students for further education and careers in automotive technology.

Required Courses: All seven (7) of these courses are required to achieve Completer Status.

SUSPENSION AND STEERING

170114 1 credit Grade 11 Code: CTP

This course provides students with the knowledge and skills necessary to take the NATEF test for Automobile Suspension and Steering as well as to enter a career in this area and/or attend post-secondary education or training. Students develop diagnostic, technical problem solving, and academic skills through classroom instruction and hands-on maintenance applications. Students will use state-of-the-art precision steering and alignment measurement tools and equipment to gather, analyze, and make necessary repairs. The ASE certification test will be taken at the end of the course.

BRAKES

170124 1 credit Grade 11 Code: CTP

This course provides students with the knowledge and skills necessary to take the technical skills assessment for automobile brakes as well as to enter a career in this area and/or attend post-secondary education or training. Students develop diagnostic, technical problem-solving, and academic skills through classroom instruction and hands-on maintenance applications. Students will use state-of-the-art precision brake measurement tools and equipment to gather, analyze, and make necessary repairs. The ASE certification test will be taken at the end of the course.

ENGINE REPAIR

170154 1 credit Grade 11 Code: CTP

This course provides students with the knowledge and skills necessary to take the technical skills assessment for engine rotations, valve trains, timing, small engines, Bernoulli's Principle, Venturi Effect, micrometer, material safety, engine teardown, abnormal engine noise, and evaluation of engine mechanical problems. Students will begin to work on customer's vehicles. The ASE certification test will be taken at the end of the course.

ELECTRICAL SYSTEMS

170134

1 credit

Grade 12

Code: CTP

Prerequisite: Suspension & Steering, Brakes, and Engine Repair

This course provides students with the knowledge and skills necessary to take the technical skills assessment for automobile electrical/electronic systems and immediately enter a career in this area and/or attend postsecondary education and/or training. Students develop diagnostic, technical problem-solving and academic skills through classroom instruction and hands-on maintenance applications. Students will use state-of-the-art precision electronic measurement tools, fault code readers and other equipment to gather, analyze, and make necessary required electrical and electronic system repairs. The ASE certification test will be taken at the end of the course.

AUTOMOTIVE HVAC

17016T

½ credit

Grade 12

Code: CTP

Prerequisite: Suspension & Steering, Brakes, and Engine Repair

This course will focus on the principle of refrigeration, the high and low sides of an air conditioning system and the safety precautions for working on heating and air conditioning systems. Students will work on customer vehicles. They will also take mock ASE tests to prepare for the ASE testing they take after completion of the course.

TRANSMISSIONS (AUTOMATIC & MANUAL)

17016U

½ credit

Grade 12

Code: CTP

Prerequisite: Suspension & Steering, Brakes, and Engine Repair

This course allows students to learn to identify/define the major part of both a manual and automatic transmission. They will be able to explain the fundamental operations of both types of transmission gears. Students will work on customer's vehicles. They will also take mock ASE tests to prepare for the ASE testing they take after completion of the course.

ENGINE PERFORMANCE

170144

1 credit

Grade 12

Code: CTC

Prerequisite: Suspension & Steering, Brakes, and Engine Repair

This course provides students with the knowledge and skills necessary to take the technical skills assessment for automobile engine performance and immediately enter a career in this area and/or attend postsecondary education and/or training. Students develop diagnostic, technical problem-solving, and academic skills through classroom instruction and hands-on maintenance applications. Students will use state-of-the-art precision electronic engine performance measurement tools, fault code readers and other equipment to gather, analyze, and make necessary required engine performance repairs. The ASE certification test will be taken at the end of the course.

CAREER CLUSTER – CONSTRUCTION AND DEVELOPMENT

HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)

The Construction Trades pathway CTE programs are based on the National Center for Construction Education and Research (NCCER) standards that lead to a national certification for those students who successfully complete Level I and/or Level II curriculum. Pathway options start with the NCCER Core Curriculum for Construction. This provides a strong foundation for all students entering the career field. After the first course, students must pass the National Construction Career Test (NCCT) for the Core and then proceed into a specific trade option. This program prepares students for further education and careers in Heating, Ventilation, and Air Conditioning.

Required Courses: All three (3) of these courses are required to achieve Completer Status.

FOUNDATIONS OF BUILDING AND CONSTRUCTION TECHNOLOGY (NCCER CORE)

170104

1 credit

Grade 11

Code: CTP

Prerequisite: Concurrently enrolled in HVAC Level I

The Foundations of Building and Construction course is the Core Curriculum of the Construction and Development Cluster. The NCCER Core Curriculum is taught within this course and is the basis for all construction skills. The course includes basic safety, construction math, hand tools, power tools, blueprints, basic rigging, and hands-on experiences. Students can earn NCCER Core certification.

HEATING, VENTILATION, AND AIR CONDITIONING (HVAC LEVEL I)**170105 1 credit Grade 11 Code: CTP*****Prerequisite: Concurrently enrolled in Foundations of Building and Construction Technology (CORE)***

This course of study includes mastery of trade mathematics, tools of the trade, copper and plastic piping practices, soldering and brazing, ferrous metal piping practices, basic electricity, introduction to cooling, and introduction to heating. Students can earn CFC certification.

HEATING, VENTILATION, AND AIR CONDITIONING (HVAC LEVEL II)**170106 2 credits Grade 12 Code: CTC*****Prerequisite: Foundations of Building and Construction Technology (CORE) and HVAC Level I***

This course of study includes mastery of air distribution systems, chimney, vents and flues, maintenance skills for the service technician, alternating current, basic electronics, and electric heating. The course also explains accessories and optional equipment, metering devices, compressors, heat pumps, leak detection, evacuation recovery and charging. Students can earn NCCER HVAC Level I certification.

HEATING, VENTILATION, AND AIR CONDITIONING WORK-BASED LEARNING**170107 1 credit Grade 12 Code: CTC*****Prerequisite: Foundations of Building and Construction Technology (CORE)***

Students enrolled in this course will complete a work-based learning experience, in the school clinic or other experience where students apply academic and technical skills to real-life applications and develop employability in the Heating, Ventilation, and Air Conditioning field.

CAREER CLUSTER – ARTS, MEDIA, AND COMMUNICATION**INTERACTIVE MEDIA PRODUCTION**

The Interactive Media Production (IMP) program includes a strong foundation in arts and communication with particular emphasis on design, graphic and media communications, interactive technologies, and project development. The program consists of four courses.

Required Courses: All four (4) of these courses are required to achieve Completer Status.

PRINCIPLES OF ARTS, MEDIA, AND COMMUNICATION**170314 1 credit Grade 11 Code: CTP*****Prerequisite: Concurrently enrolled in Interactive Media and Design I***

This course provides students with an understanding of the arts, media, and communication industries. Students will examine the opportunities and requirements of the major careers in this industry, including communication and broadcast technologies, multimedia production, graphic design, and print communication.

INTERACTIVE MEDIA AND DESIGN I**171324 1 credit Grade 11 Code: CTC*****Prerequisite: Concurrently enrolled in Principles of Arts, Media and Communication***

In this course, students' learning will focus on three pathway areas: Graphic Design, Digital Media, and Interactive Media. Emphasis will be placed on group project development, and individual portfolio development.

INTERACTIVE MEDIA AND DESIGN II**171334 1 credit Grade 12 Code: CTC*****Prerequisite: Principles of Arts, Media, and Communication and Interactive Media and Design I***

In Interactive Media and Design II, 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 exemplars 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.

INTERACTIVE MEDIA PORTFOLIO CAPSTONE**171344 1 credit Grade 12 Code: CTP, CC*****Prerequisite: Principles of Arts, Media, and Communication and Interactive Media and Design I***

This capstone course enables students to apply what they learned in their previous academic and IMP classes to complete

a challenging, client-driven project. Students work in teams to design and create a solution to satisfy or fill a client's need or want. Students are also expected to refine the products that comprise their portfolio to meet the specifications identified by the affiliate partner. Student teams make progress reports to their peers, meet regularly with their clients, and exchange constructive criticism and consultation. At the end of the course, teams present their projects to industry partners for feedback and professional review. Students are able to earn several Adobe certifications at the end of the course.

CAREER CLUSTER – HEALTH & BIOSCIENCES

ACADEMY OF HEALTH PROFESSIONS: PHARMACY TECHNICIAN

The Academy of Health Professions (AHP) Pharmacy Technician program introduces students to healthcare knowledge and skills through project and problem-based learning, internship experiences, and classroom and lab instruction. There are four courses in this career pathway sequence: two foundation courses, one pharmacy technician medical specialty course, and an allied health internship. Students are prepared to take the exam for the Certification of Pharmacy Technicians (ExCPT) administered by the National Health Career Association (NHA).

Required Courses: All four (4) of the following courses are required to achieve Completer Status.

FOUNDATIONS OF MEDICINE AND HEALTH SCIENCES

Prerequisite: Biology and concurrently enrolled in Structure and Functions of the Human Body

130910 1 credit Grade 11 Code: CTP

Students learn about the history and economics of the healthcare industry while engaging in the medical terminology, processes, and procedures used in the delivery of essential healthcare services. Ethical and legal responsibilities in healthcare will be analyzed in order to learn about making informed patient care decisions.

STRUCTURE AND FUNCTIONS OF THE HUMAN BODY (HONORS)

Prerequisite: Biology and concurrently enrolled in Foundations of Medicine & Health Sciences and Chemistry

130920 1 credit Grade 11 Codes: CTP, W

Students study the structure and functions of the human body, including cellular biology, histology, and the medical terminology related to body systems. Students investigate the body's responses to the external environment, maintenance of homeostasis, electrical interactions, transport systems, and energy processes.

PHARMACY TECHNICIAN MEDICAL SPECIALTY (HONORS)

Prerequisite: Biology, Chemistry, Foundations of Medicine & Health Sciences; Structure & Functions of the Human Body and concurrently enrolled in Allied Health Internship

130930 1 credit Grade 12 Codes: CTC, W

Students learn the roles and responsibilities of the pharmacy technician, including knowledge of prescription medications, the dispensing process, pharmaceutical calculations, effective communication skills, and the Federal & State laws governing the practice of pharmacy. Students will prepare to take the Pharmacy Technician Certification Board (ExCPT) exam.

ALLIED HEALTH INTERNSHIP (HONORS)

Prerequisite: Biology, Chemistry, Foundations of Medicine & Health Sciences; Structure & Functions of the Human Body and concurrently enrolled in Pharmacy Technician Medical Specialty

130940 2 credits Grade 12 Codes: CTP, W

Students will participate in a work-based learning opportunity in a professional healthcare setting which should reflect their interest in pursuing a career in Health Care. Students will be supervised by an instructor and participate in a school-based seminar class at least once per week to share experiences.

CAREER CLUSTER – HEALTH & BIOSCIENCES

ACADEMY OF HEALTH PROFESSIONS: PHYSICAL REHABILITATION

The Academy of Health Professions (AHP) Physical Rehabilitation program introduces students to healthcare knowledge and skills through project problem-based learning, internship experiences, and classroom and lab instruction. There are four courses in this career pathway sequence: two foundation courses, one physical rehabilitation medical specialty course, and an allied health internship. Students are prepared to take the national exam.

Required Courses: All four (4) of the following courses are required to achieve Completer Status.

FOUNDATIONS OF MEDICINE AND HEALTH SCIENCES

Prerequisite: *Biology and concurrently enrolled in Structure and Functions of the Human Body*

130911 1 credit Grade 11 Code: CTP

Students learn about the history and economics of the healthcare industry while engaging in the medical terminology, processes, and procedures used in the delivery of essential healthcare services. Ethical and legal responsibilities in healthcare will be analyzed in order to learn about making informed patient care decisions.

STRUCTURE AND FUNCTIONS OF THE HUMAN BODY (HONORS)

Prerequisite: *Biology and concurrently enrolled in Foundations of Medicine & Health Sciences and Chemistry*

130921 1 credit Grade 11 Codes: CTP, W

Students study the structure and functions of the human body, including cellular biology, histology, and the medical terminology related to body systems. Students investigate the body's responses to the external environment, maintenance of homeostasis, electrical interactions, transport systems, and energy processes.

PHYSICAL REHABILITATION-MEDICAL SPECIALITY (HONORS)

Prerequisite: *Biology, Chemistry, Foundations of Medicine & Health Sciences; Structure & Functions of the Human Body and concurrently enrolled in Allied Health Internship*

130935 1 credit Grade 12 Codes: CTC, W

This course is designed to expose students to varied careers related to the physical and occupational therapy field by integrating concepts of physical therapy, occupational therapy, kinesiology, and athletic training. Students will be prepared for experience in the clinical setting with a focus on the specific knowledge, skills and abilities that relate to physical rehabilitation and/or occupational therapy. Students are able to take the Certified Personal Trainer Exam through the National Strength Professionals Association (NSPA).

ALLIED HEALTH INTERNSHIP (HONORS)

Prerequisite: *Biology, Chemistry, Foundations of Medicine & Health Sciences; Structure & Functions of the Human Body and concurrently enrolled in Physical Rehabilitation Specialty*

130941 2 credits Grade 12 Codes: CTP, W, CC

Students will participate in a work-based learning opportunity in a professional healthcare setting which should reflect their interest in pursuing a career in Health Care. Students will be supervised by an instructor and participate in a school-based seminar class at least once per week to share experiences.

COMPUTER SCIENCE/COMPUTER TECHNOLOGY



The most important aspect of computer science is problem solving, an essential skill for life. Students study the design, development and analysis of using computers to solve problems in a variety of business, arts, scientific, and social contexts. Because computers solve problems to serve people, there is a significant human side to computer science as well. Computer science contributes to a well-rounded education for every student in the 21st century.

ADVANCED PLACEMENT COMPUTER SCIENCE A

179030 1 credit Grades 10, 11, 12 Codes: CTC, W*

17903E 1 credit Grades 10, 11, 12

Prerequisite: *Introduction to Computer Programming or approval of instructor*

This course is designed to prepare students for the AP Computer Science A examination. The course emphasizes content comparable to a first college course in programming for Computer Science majors. Using the Java programming language, the course introduces program design, including static and object oriented programming. It also introduces data structures, searching and sorting algorithms, and algorithm comparison.

ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES

179060 1 credit Grades 10, 11, 12 Codes: TE, CTP, W*

As described by the College Board, AP Computer Science Principles introduces foundational concepts of computer science and explores computing's impact on the world. It focuses on creative problem solving and real-world applications. The Computer Science Principles course teaches use of computational tools to analyze and develop computational artifacts and computational thinking practices including abstraction, collaborative problem solving, and communication. This course is designed to support student preparation of the two projects required to be submitted to the College Board and prepare them for the end of the year exam. This course cannot be used as the TE requirement for graduation if taken as part of the Computer and Information Sciences pathway.

COMPUTER INTERNSHIP

C17920 1 credit Grades 11, 12 Code: CC

C17921 (lab) 1 credit

(1 credit class instruction and 1 credit independent lab training)

Prerequisite: *One additional computer science/computer technology course*

This course allows students to serve as technicians and information systems specialists for their high school. They will be introduced to network administration and basic computer repair. Students will solve hardware and software problems throughout the entire school. Independent work and exploration, under the guidance of their instructor, will be a major part of this course. With the additional network rights and privileges come added student expectations of responsibility, especially the expectation that no intern will abuse or misuse this privilege.

COMPUTER SCIENCE CAPSTONE

179070 1 credit Grade 12 Codes: CTP, W*

Prerequisite: *Introduction to Computer Programming, Advanced Placement Computer Science Principles, and concurrent with Advanced Placement Computer Science-A*

This course is designed to provide students with an in-depth understanding on how to provide Information Technology (IT) solutions to real-world problems. They will build on knowledge and skills gained from previous courses and provides a forum for analyzing, synthesizing, and implementing skills and knowledge. This course offers two national certifications in CompTIA A+ and CompTIA Security+, and in which students will have demonstrated mastery in the IT and cybersecurity content. Students can apply what they have learned to advancements in the computer science field.

DIGITAL ELECTRONICS (HONORS)

130750 1 credit Grades 11, 12 Codes: CTP, W

13075E 1 credit Grades 11, 12

Prerequisite: *Principles of Engineering and Introduction to Engineering Design OR Introduction to Computer Programming*

This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. From smart phones to appliances, digital circuits are all around us. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and

programmable logic devices.

EXPLORING COMPUTER SCIENCE

179040

1 credit

Grades 9, 10, 11, 12

Code: TE

Exploring Computer Science is a year-long course consisting of 6 units, approximately 6 weeks each. The course was developed around a framework of both computer science content and computational practice. Assignments and instruction are contextualized to be socially relevant and meaningful for diverse students. Units utilize a variety of tools/platforms, and culminate with final projects. Students interested in pursuing a career in computer science are encouraged to take this course.

INTRODUCTION TO COMPUTER PROGRAMMING (HONORS)

179000

1 credit

Grades 9, 10, 11, 12

Codes: CTP, W

Prerequisite: Completion or concurrent enrollment in Algebra I

The goal of this course is to prepare and provide students the skill sets for the AP Computer Science Principles and the AP Computer Science A courses. The emphasis is on solving real-world problems by means of computer programming using the following languages: Java, JavaScript, and Python. Topics will include object-oriented design techniques, classes, objects, data types, control statements (selection and iteration), and arrays. Emphasis will be placed on computer science skills, problem solving, algorithm design, and documentation.

WEB DESIGN AND DEVELOPMENT I

179016

1 credit

Grades 9, 10, 11, 12

Prerequisite: Algebra I

This course concentrates on the two main aspects of web development: design and programming. Design is concerned with the appearance and user-friendliness of the site. Programming relates to the instructions that control what tasks are performed on the site. Students will use a variety of techniques and tools within a professional web development suite, such as Adobe CS6, to develop web sites. Students will also hand code web pages using current markup standards.

WEB DESIGN AND DEVELOPMENT II

179017

1 credit

Grades 10, 11, 12

Prerequisite: Web Design and Development I

This course extends web development skills by creating dynamic, data driven web sites. Students will learn to build web applications that authenticate users, send email, perform calculations, and store and retrieve data from databases. Students will also learn how to install and manage web and database servers. Web applications and technologies such as Adobe Creative Suite, JavaScript, XHTML, CSS, ASP, and PHP will be used in course projects.



ENGLISH

The high school English program is designed to develop skills in reading, writing, viewing, listening, and speaking as well as to provide an in-depth study of literature and language. Enrichment opportunities are also provided in journalism, speech, and yearbook. Levels of English classes are provided to meet a variety of instructional and educational needs. Advanced Placement courses are also offered.

- **Advanced Placement (AP)** courses are designed for the student who has demonstrated the ability to move beyond the honors level courses and aspires to become a critical reader of college-level texts and strengthen the effectiveness of his/her writing through close reading and frequent practice at applying rhetorical strategies. Extensive reading and writing outside of the classroom are required.
- **Honors** courses are designed for the student who has an interest in English, has the ability to move beyond grade level in content, and wishes to be prepared to enter a competitive four-year college or university at the end of his/her high school career.
- **A Level** courses are designed for students who wish to improve their reading and writing skills and whose plans may include entry into postsecondary education or significant employment.

ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION

017020

1 credit

Grades 11, 12

Code: W*

Prerequisite: English II or III Honors

This course is designed for students who wish to take the College Board examination in Advanced Placement Language and Composition. The course involves intensive analysis of college-level texts for mature readers. Both content and rhetorical/stylistic elements will be studied. Timed writings and analysis of texts will form major components of the course. Students will learn to write essays in all rhetorical modes, especially exposition, persuasion, and argumentation, to prepare them for college writing tasks. **Summer reading is required.**

ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION

017010

1 credit

Grade 12

Code: W*

Prerequisite: English III Honors or AP Language and Composition

This course is designed for students who desire to prepare to take the College Board examination in Advanced Placement Literature and Composition. The course involves intensive critical analysis of college-level works of literature for mature readers. Timed writings, essay writing, critiques, and critical analysis papers will form the writing component of this course. **Summer reading is required.**

COMPOSITION AND RHETORIC

012810

1 credit

Grade 12

Code: W

Prerequisite: English III Honors, A level

The focus of this course is the refinement of students' reading, writing, and language skills in preparation for college-level classes. During the first semester, students will work on developing critical reading and comprehension skills by analyzing rhetoric in a wide-range of texts. During the second semester, students will apply their understanding of rhetoric and composition by planning, organizing, and developing a variety of college-level compositions. Students will refine their research and documentation skills. This course fulfills the 12th grade English credit requirement and may not be used as an elective credit. **Summer reading is required.** *Under conditions determined by the College of Southern Maryland (CSM), this course may earn college credit.*

ENGLISH I (HONORS)

011010

1 credit

Grade 9

Code: W

This course is provided for students who wish to pursue an enriched English program. It focuses on reading, writing, speaking, listening, and language. It builds upon prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing. An intensive study of literary and informational genres will also be addressed. Writing will be linked to the reading selections. **Summer reading is required.**

ENGLISH I (A LEVEL)**011011****1 credit****Grade 9**

This course is designed to develop skills in reading, writing, speaking, listening, and language. It builds upon prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing. It includes the study of various genres of literature and informational texts, which will be linked to writing assignments.

ENGLISH I (INDIVIDUALIZED)**01981V or W****1 credit****Grade 9**

This course is available to students on recommendation of the Individualized Education Program (IEP) Committee. Individual goals and objectives are developed in an IEP. Goals and objectives on the IEP reflect a student's level of performance and rate of learning. Instruction is based on individual needs in any of the following areas: (1) basic reading skills, (2) effective oral expression, (3) enjoyment of literature, (4) functional writing skills, (5) listening skills, and/or (6) viewing skills.

ENGLISH II (HONORS)**011510****1 credit****Grade 10****Codes: EOC, W*****Prerequisite: English I***

This course is provided to challenge students who have demonstrated interest and ability in above-grade level English work. Intensive study and in-depth analysis of literature and informational texts are provided, as are opportunities for speaking and listening. Students will have multiple opportunities to write argumentative, informational, and narrative multi-paragraph essays and compositions. Students will continue to develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message. **Summer reading is required.**

ENGLISH II (A LEVEL)**011511****1 credit****Grade 10****Code: EOC*****Prerequisite: English I***

This course offers a balanced focus on composition, literature, and informational texts. Students will have opportunities to write argumentative, informational, and narrative essays and compositions. Through the study of literature and informational texts, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme. Speaking and listening skills continue to be developed.

ENGLISH II (INDIVIDUALIZED)**01982V or W****1 credit****Grade 10****Code: EOC**

This course is available to students on recommendation of the Individualized Education Program (IEP) Committee. Individual goals and objectives are developed in an IEP. Goals and objectives on the IEP reflect a student's level of performance and rate of learning. Instruction is based on individual needs in any of the following areas: (1) basic reading skills, (2) effective oral expression, (3) enjoyment of literature, (4) functional writing skills, (5) listening skills, and/or (6) viewing skills.

ENGLISH III (HONORS)**012020****1 credit****Grade 11****Codes: EOC, W*****Prerequisite: English II***

This course focuses instruction on the critical analysis of literature and informational texts with an emphasis on structure and thematic foundations, which form the backbone of writing assignments. Students continue to develop their writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as they write argumentative, informational, and narrative essays. Literary conventions and stylistic devices receive greater emphasis than previous courses. Speaking and listening skills continue to be developed. ACT/SAT preparation will also be addressed in this course. **Summer reading is required.**

ENGLISH III (A LEVEL)**012021****1 credit****Grade 11****Code: EOC*****Prerequisite: English II***

This course is designed to enable students to understand and appreciate literary works of various genres and non-fiction texts, with an emphasis on reading strategies, text analysis, and language study. This course continues to develop writing, speaking, and listening skills in order to prepare students for college or career. Students will write argumentative, informational, and narrative essays. Literary conventions and stylistic devices receive greater emphasis than in previous

courses.

ENGLISH III (INDIVIDUALIZED)

01983V or W

1 credit

Grade 11

Code: EOC

This course is available to students on recommendation of the Individualized Education Program (IEP) Committee. Individual goals and objectives are developed in an IEP. Goals and objectives on the IEP reflect a student's level of performance and rate of learning. Instruction is based on individual needs in any of the following areas: (1) basic reading skills, (2) effective oral expression, (3) enjoyment of literature, (4) functional writing skills, (5) listening skills, and/or (6) viewing skills.

ENGLISH IV (HONORS)

012710

1 credit

Grade 12

Code: W

Prerequisite: English III

This course is designed to meet the needs of students who are reading and writing at or above grade level but do not wish to pursue college-level AP classes. This course blends composition, literature, and informational texts into a cohesive whole as students write critical analyses while they continue to develop their language arts skills. Students primarily write argumentative, informational, and narrative essays. Literary conventions and stylistic devices receive greater emphasis than in previous courses. Speaking and listening skills continue to be developed. **Summer reading is required.**

ENGLISH IV (A LEVEL)

012711

1 credit

Grade 12

Prerequisite: English III

This course is designed to help students develop and strengthen communication and interpretation skills necessary to perform well in college or career. Students will continue reading literature and informational texts and writing argumentative, informational, and narrative essays. Literary conventions and stylistic devices receive greater emphasis than in previous courses. Speaking and listening skills continue to be developed.

ENGLISH IV (INDIVIDUALIZED)

01984V or W

1 credit

Grade 12

This course is available to students on recommendation of the Individualized Education Program (IEP) Committee. Individual goals and objectives are developed in an IEP. Goals and objectives on the IEP reflect a student's level of performance and rate of learning. Instruction is based on individual needs in any of the following areas: (1) basic reading skills, (2) effective oral expression, (3) enjoyment of literature, (4) functional writing skills, (5) listening skills, and/or (6) viewing skills.

NEWSPAPER PUBLICATIONS I

016014

1 credit

Grades 10, 11, 12

NEWSPAPER PUBLICATIONS II

016024

1 credit

Grades 11, 12

NEWSPAPER PUBLICATIONS III

016034

1 credit

Grade 12

Prerequisite: Approval of instructor

These elective courses expose students to the principles of journalism. Students will learn the skills necessary for communicating in the print media with emphasis on interviewing, observing, reporting, editing, layout, and design. Students will help produce a school newspaper. Students will develop computer skills using current technology in the field of journalism.

POET'S WORKSHOP

018014

1 credit

Grades 11, 12

01801T or U

½ credit

Grades 11, 12

This course is an elective study of the craft of writing poetry. Students will focus on the various fundamental elements of this art, examine how professional writers employ literary devices to create poetry, and use those techniques to compose original poetry that will be peer-critiqued using a workshop format. The main objective for this course is to create a community of writers and thinkers. Students will keep a works-in-progress folder from which a portfolio of poems will be created and collected. Topics to be covered in the class include tone, imagery, persona, form, figurative language, alliteration, revision, and publication.

SPEECH

014014	1 credit	Grades 10, 11, 12
01401T or U	½ credit	Grades 11, 12

This elective course provides opportunities for the student to improve oral communication skills, planned discussions, reports, formal speeches, oral interpretation, and debate.

YEARBOOK PUBLICATIONS I

016054	1 credit	Grades 10, 11, 12
---------------	-----------------	--------------------------

YEARBOOK PUBLICATIONS II

016064	1 credit	Grades 11, 12
---------------	-----------------	----------------------

YEARBOOK PUBLICATIONS III

016074	1 credit	Grade 12
---------------	-----------------	-----------------

Prerequisite: Approval of instructor

These elective courses develop computer skills using a professional desktop publishing program. Students will learn to operate hardware such as computers, laser printers, and scanners correctly, to take photographs and develop them in a darkroom, and to apply the principles of layout and design to the production of the yearbook. Additional desktop publishing projects may be undertaken as time permits.



ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL)

These courses are designed for English Learners (ELs) whose native or first language is not English and are enrolled at the Secondary Academy of International Languages (SAIL) at McDonough High School, Thomas Stone High School, and Westlake High School. The ESOL courses are also open to eligible immigrant students who require assistance in adjusting to American culture even though their English skills may be fairly proficient. Those USA-born students who consistently use a language other than English in their homes and social settings may also be eligible to take these courses. Students will be recommended and selected for these courses as determined by the World-Class Instructional Design and Assessment (WIDA) Screener English Proficiency Test.

Coursework focuses on the four domains of listening, speaking, reading, and writing within the context of the core curriculum and the WIDA English Language-Development (ELD) Standards. The ESOL teachers work closely with classroom teachers to assist the EL in obtaining a satisfactory level of achievement in academic subjects. An ESOL-based curriculum textbook series and MSDE-mandated assessments are the basis for the course. Students enrolled in the ESOL program are required to participate in the MSDE-mandated WIDA ACCESS for ELLs (Assessing Comprehension and Communication in English State-to-State for English Learners) annual assessment.

ENGLISH I (SAIL)

S11011 1 credit Grade 10

Prerequisite: ESOL Literacy

This course is designed to develop skills in reading, writing, speaking, listening, and language. It builds upon prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing. It includes the study of various genres of literature and informational texts, which will be linked to writing assignments. This course is designed for English Learners (ELs) whose native or first language is not English and are enrolled in the Newcomer's Program at the Secondary Academy of International Languages (SAIL). This course is taken concurrently with ENGLISH II (SAIL).

ENGLISH II (SAIL)

S11511 1 credit Grade 10

Prerequisite: ESOL Literacy

This course offers a balanced focus on composition, literature, and informational texts. Students will have opportunities to write argumentative, informational, and narrative essays and compositions. Through the study of literature and informational texts, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme. Speaking and listening skills continue to be developed. This course is designed for English Learners (ELs) whose native or first language is not English and are enrolled in the Newcomer's Program at the Secondary Academy of International Languages (SAIL). This course is taken concurrently with ENGLISH I (SAIL).

ESOL I

019814 1 credit Grades 9, 10, 11, 12

Prerequisite: Meets established criteria

This elective course is designed for native speakers of languages other than English who attend the Secondary Academy of International Languages (SAIL) at McDonough High School, Thomas Stone High School, and Westlake High School and who have demonstrated limited English proficiency as measured by the WIDA Screener Test. *Entering or Beginning* students are introduced to the basic structures of reading, writing, speaking, and listening in English. Students learn to use English appropriately in a range of academic and social situations. They also develop basic reading and writing strategies, expand oral comprehension, and learn initial conventions of grammar and punctuation. This course does not satisfy the graduation requirement for English credit.

ESOL II

019824 1 credit Grades 9, 10, 11, 12

Prerequisite: ESOL I and approval of ESOL instructor, school counselor, and parent

This elective course is designed for native speakers of languages other than English who attend the Secondary Academy of International Languages (SAIL) at McDonough High School, Thomas Stone High School, and Westlake High School and who need to develop more advanced skills in English listening, speaking, reading, and writing. English Learners (ELs) focus on the expanding social and academic language skills. Emphasis is placed on developing or expanding grammatical structures, reading comprehension, and writing skills as they relate to academic coursework. This course does not satisfy the graduation requirements for English credit.

ESOL III**019834****1 credit****Grades 9, 10, 11, 12*****Prerequisite: ESOL II and approval of ESOL instructor, school counselor, and parent***

This elective course is designed for native speakers of languages other than English who attend the Secondary Academy of International Languages (SAIL) at McDonough High School, Thomas Stone High School, and Westlake High School and who require continued language instruction to reach a proficient level of listening, speaking, reading, and writing in English. The course focuses on students expanding and bridging their academic language proficiency. Students examine authentic academic literature and non-fiction, and engage in the writing process to develop narrative, descriptive, technical, and persuasive writing. This course does not satisfy the graduation requirements for English credit.

ESOL IV**019844****1 credit****Grades 9, 10, 11, 12*****Prerequisite: ESOL III and approval of ESOL instructor, school counselor, and parent***

This elective course is designed for native speakers of languages other than English who attend the Secondary Academy of International Languages (SAIL) at McDonough High School, Thomas Stone High School, and Westlake High School. The course provides academic support and language application for *Expanding* and *Bridging* English Learners (ELs) to reach a proficient level of listening, speaking, reading, and writing in English. It is recommended for those limited English-speaking students who still have to pass one or more of the required content assessments to meet graduation requirements. This course does not satisfy the graduation requirements for English credit.

ESOL LITERACY**019714****1 credit****Grade 9**

This course is designed for English Learners (ELs) whose native or first language is not English and are enrolled in the Newcomer's Program at the Secondary Academy of International Languages (SAIL). This course builds knowledge of grammar, vocabulary, word usage, and the mechanics of writing in English with native language support. This course provides an elective credit. It does not fulfill an English credit towards graduation.

ESOL MATH CONCEPTS**019614****1 credit****Grade 9**

This course is designed for English Learners (ELs) whose native or first language is not English and are enrolled in the Newcomer's Program at the Secondary Academy of International Languages (SAIL). This course is designed to strengthen foundational mathematics concepts in preparation for entering Foundations of Algebra. Topics in the course include modeling algebraic expressions and equations, using proportional reasoning, analyzing functions, and graphing linear equations. This course provides an elective credit. It does not fulfill an algebra credit towards graduation.



FAMILY AND CONSUMER SCIENCES

Students in Family and Consumer Sciences will discover the economic, technological, cultural, and social conditions influencing individuals when considering the multiple roles that may be assumed as they relate to family, work, careers, and society.

These courses have been developed around five areas of study. They include fashion, housing and interior design, consumerism, interpersonal relationships, and nutrition. Courses have been developed to allow students to pursue a wide variety of personal interests. The content for all courses will address current trends and emerging technologies.

ARCHITECTURE AND INTERIOR DESIGN**120654****1 credit****Grades 9, 10, 11, 12****Code: FA**

This course is designed to explore the topics, trends, and concerns of housing, architecture, and interior design. The student is expected to apply the elements and principles of design, financial considerations, community planning, and environmental issues to the program topics. They will design and present projects that reflect their understanding of these concepts. The course will also provide information about a wide range of careers related to housing, design, and home furnishings.

BECOMING A FOOD SERVICE PROFESSIONAL (LEVEL 1)

Prerequisite: Food and Nutrition Science

131114

1 credit

Grades 10, 11

Code: CTP

This course provides an introduction to the food service and hospitality industry. Students develop and demonstrate skills in safe and sanitary food handling and preparation techniques. Students learn to prepare a variety of foods. They develop a broad understanding of the variety of career options available in the food service and hospitality industry, and have the opportunity to earn the ServeSafe credential. Students can begin to accrue hours to meet the 400-hour work-based learning experience requirement. Of the 400 hours, 150 hours can be earned through in-class clinical experience. All students enrolled in the course must take the NRAEF end-of-course exam.

FASHION DESIGN

120684

1 credit

Grades 10, 11, 12

Code: FA

Prerequisite: Textiles and Apparel or teacher approval

This course will introduce students to the principle of flat pattern design and draping. The course is recommended for the student interested in fashion production as it relates to self and/or career. Students will investigate the elements and principles of design, textiles, and related careers. Current trends in fashion will also be explored. All projects are the financial responsibility of the student.

FASHION MERCHANDISING AND MARKETING

120694

1 credit

Grades 9, 10, 11, 12

This course is designed for students having a special interest in fashion merchandising and retailing. It addresses specific job preparation skills for the fashion industry. It will explore careers in textiles, design, merchandising, media and promotion, fashion illustration, manufacturing, retailing, as well as an exploration of emerging retail technologies. Students are expected to design and present projects that reflect their understanding of these concepts.

FOODS AND NUTRITION SCIENCE

120514

1 credit

Grades 9, 10, 11, 12

This course prepares students with skills in nutritious meal planning and preparation. Students explore current concepts of nutrition and the application to healthy lifestyle patterns. Topics include the relationship of nutrients to optimal health, weight management, exercise, nutritional labeling, and scientific principles of food production, preparation, and consumption.

INTERCULTURAL FOODS

120644

1 credit

Grades 10, 11, 12

Prerequisite: Foods and Nutrition Science

This is an advanced course designed to introduce students to the multi-cultural aspects of people through the study of regional and foreign foods. Units of study include world nutritional concerns, socio-cultural influences on food choices, meal planning, and preparation. Gourmet food preparation will also be explored.

TEXTILES AND APPARELS

120624

1 credit

Grades 9, 10, 11, 12

This is an introductory textile course designed to strengthen the individual's knowledge of clothing construction skills. It provides a comprehensive study of the many facets of fashion and wardrobe planning. Students are required to construct clothing projects that are the financial responsibility of the student.

FINANCIAL LITERACY



Students need a strong foundation in personal financial literacy. It is important to prepare students with the knowledge and skills necessary to meaningfully plan for their financial future, manage their money, and evaluate choices to make informed decisions.

PERSONAL FINANCIAL LITERACY

120524

1 credit

Grades 10, 11, 12

This course covers a wide variety of personal financial literacy concepts to prepare students to manage their financial future. Students will learn to manage credit and debit, make informed financially responsible decisions, develop goals and spending plans, and learn ways to save and invest to achieve long-term financial goals.

48

2/9/2022 C&I/Miesowicz_Jones/sml

These codes appear with course descriptions where appropriate: ATE = Advanced Technology Credit; CC = may be eligible for college credit; CTP = Maryland State Dept. of Education Approved Career Technical Program; CTC = CTP Concentrator Course; EOC = End-of-Course Assessment; FA = Fine Arts; TE = Technology Education; W = Weighted (HONORS); W* = Weighted (AP)



FINE AND PERFORMING ARTS

The Fine Arts curriculum is a course of study designed to promote the student's life-long appreciation and participation in the arts. Through courses in the visual arts, theatre, and music, students have an opportunity to enhance their personal expression and creativity, to master basic skills, and to understand how the arts reflect humanity and culture.

VISUAL ARTS ELECTIVES

The visual arts electives are designed to help all students develop aesthetic awareness, art appreciation, and experience a variety of art techniques through production. Time management, craftsmanship, proper use of tools, and presentation techniques are an integral part of this program. Art I is the foundation course and a prerequisite for all advanced classes unless prior approval is given by the Art Department through a portfolio review. Visual Arts courses may require a sketchbook.

ADVANCED ART

067010 **1 credit** **Grades 11, 12** **Code: FA**

Prerequisite: Successful completion of two art courses or approval of instructor

This course is designed for students interested in building a portfolio. Students will produce original artwork in a variety of media. Students will also be encouraged to develop a specialization in a media of their choice.

ADVANCED PLACEMENT ART HISTORY

060410 **1 credit** **Grades 10, 11, 12** **Codes: FA, W***

This course prepares students to take the national Advanced Placement Examination in Art History to earn college credit. Instruction provides an introductory understanding of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Students examine major forms of artistic expression from the past and present across cultures. Students will develop aesthetic appreciation for various art forms and the ability to view art critically and analytically.

ADVANCED PLACEMENT STUDIO ART: DRAWING

060530 **1 credit** **Grades 11, 12** **Codes: FA, W***

Prerequisite: Art II or approval of instructor

This course prepares students to take the national examination offered by the College Board in Studio Art. In the Drawing portfolio, mastery of drawing can be demonstrated through a wide range of approaches and media. Light and shade, line quality, rendering of form, composition, surface manipulation, and the illusion of depth are drawing issues that can be addressed through a variety of means, which include painting, printmaking, mixed media, etc. Works may include drawings, paintings, prints, etc. The evaluation of portfolio materials will reflect three areas of concern: quality, breadth, and concentration.

ADVANCED PLACEMENT STUDIO ART: 2-D DESIGN

060510 **1 credit** **Grades 11, 12** **Codes: FA, W***

Prerequisite: Art II or approval of instructor

This course prepares students to take the national examination offered by the College Board in Studio Art. Students may submit any 2-D process or medium, which may include graphic design, digital imaging, photography, collage, fabric design, weaving, illustration, painting, and printmaking. The evaluation of portfolio materials will reflect three areas of concern: quality, breadth, and concentration. The evaluation of portfolio materials will reflect two areas of concern: quality of the artwork and the sustained investigation of materials, processes, ideas, and artistic skills in the student's concentration of artwork.

ADVANCED PLACEMENT STUDIO ART: 3-D DESIGN

060520 **1 credit** **Grades 11, 12** **Codes: FA, W***

Prerequisite: Art II or approval of instructor

This course prepares students to take the national examination offered by the College Board in Studio Art. Students will demonstrate an understanding of design principles as they relate to depth and space. Students may submit works to include figurative or nonfigurative sculpture, architectural models, metal work, ceramics, and three dimensional fiber arts, among others. The evaluation of portfolio materials will reflect three areas of concern: quality, breadth, and concentration. The evaluation of portfolio materials will reflect two areas of concern: quality of the artwork and the sustained investigation of materials, processes, ideas, and artistic skills in the student's concentration of artwork.

ART I

060514	1 credit	Grades 9, 10, 11, 12	Code: FA
---------------	-----------------	-----------------------------	-----------------

This course provides art fundamentals and is primarily a course in basic design. The concepts may be taught through the use of a variety of media. Emphasis is placed upon developing art skills and critical judgment along with aesthetic awareness through written and oral criticism. Structural awareness is emphasized through art history as it applies to fundamental learning in art. The student should gain an understanding of the visual arts as a part of his/her environment. Art history is presented as it applies to fundamental learning in art.

ART II

060524	1 credit	Grades 10, 11, 12	Code: FA
---------------	-----------------	--------------------------	-----------------

Prerequisite: Art I or approval of instructor

This course is an extension of the Art I program, designed for students who have an interest in refining their individual art skills. More sophisticated media will be used and further research of art history with a cultural emphasis will be encouraged.

CERAMICS I

069914	1 credit	Grades 10, 11, 12	Code: FA
---------------	-----------------	--------------------------	-----------------

Prerequisite: Art I or approval of instructor

This is the basic course for students interested in working with clay. Students will learn the history of ceramics, ceramic theory, basic hand-building and sculptural techniques, glaze theory and techniques, and art criticism.

CERAMICS II

069924	1 credit	Grades 11, 12	Code: FA
---------------	-----------------	----------------------	-----------------

Prerequisite: Ceramics I

CERAMICS III

069934	1 credit	Grade 12	Code: FA
---------------	-----------------	-----------------	-----------------

Prerequisite: Ceramics II

These courses will allow for the refinement of skills and development of individual creative style by exploring individual areas of interest. Students will complete assignments of a technical and experimental nature in addition to pursuing independent projects. Students may assume more responsibility for studio operations and maintenance (kiln loading, glaze research, etc.) and will produce pottery and sculpture which reflects individuality and critical discrimination.

DRAWING/DESIGN

069954	1 credit	Grades 10, 11, 12	Code: FA
---------------	-----------------	--------------------------	-----------------

Prerequisite: Art II or approval of instructor

This course develops drawing techniques and concepts in a variety of media. Refinement of perceptual skills through written/oral critique of students and instructor, along with development of an expressive style, will be emphasized. Different applications of design will be explored as they relate to historical and cultural perspectives.

PAINTING I

069944	1 credit	Grades 10, 11, 12	Code: FA
---------------	-----------------	--------------------------	-----------------

Prerequisite: Art II or approval of instructor

PAINTING II

069945	1 credit	Grades 11, 12	Code: FA
---------------	-----------------	----------------------	-----------------

Prerequisite: Painting I

PAINTING III

069946	1 credit	Grade 12	Code: FA
---------------	-----------------	-----------------	-----------------

Prerequisite: Painting II

These courses are designed to analyze the use of color through utilization of a variety of materials and techniques. In the study of the history of painting, students will create paintings related to various historical/cultural issues. Emphasis will be placed on the study of specific styles of painting to help the students develop their own personal approach to their work.

PHOTOGRAPHY I

069984	1 credit	Grades 10, 11, 12	Code: FA
---------------	-----------------	--------------------------	-----------------

Prerequisite: Art I or approval of instructor; students must supply a 35 mm camera that meets the instructor's specifications.

This course will explore the basics of 35 mm photography, including camera operation, exposure techniques, composition,

and darkroom skills. The history of photography will be presented in chronological order and major photographers will be examined as styles correlate to classroom projects. The aesthetics of photography will be explored through a combination of photo assignments, darkroom work, class critiques, and field trips emphasizing the development of each student's personal photographic style and artistic vision. Students are responsible for purchasing additional photo paper if they use their allotment.

PHOTOGRAPHY II

069985 **1 credit** **Grades 11, 12** **Code: FA**

Prerequisite: Photography I

PHOTOGRAPHY III

069986 **1 credit** **Grade 12** **Code: FA**

Prerequisite: Photography II

These courses will provide the intermediate photography student with the opportunity to expand on techniques learned in Photography I. The student will learn more advanced darkroom and camera techniques and will incorporate acquired skills in the development of each student's photographic style and artistic vision. Class projects will include a portfolio of mounted assignments, several three-dimensional photo assignments, a research paper, a notebook, and other assignments as appropriate. Students are responsible for purchasing additional photo paper if they use their allotment.

SCULPTURE

069994 **1 credit** **Grades 11, 12** **Code: FA**

Prerequisite: Ceramics I or approval of instructor

This course will concentrate on three-dimensional work. The four basic techniques used are manipulative, substitutive, subtractive, and additive. An integral part of the class will be a focus on art history, art criticism, and aesthetic awareness.

MUSIC ELECTIVES

The music course electives are designed to provide:

- Instruction in vocal and instrumental music performance for those students who began a sequential program of training at the elementary and middle school levels
- Beginning instruction in music performance to promising students with no previous instruction
- Music electives for non-performing students who wish to extend their general knowledge of the world of music, or a sequence of course offerings for the prospective college music major

ADVANCED PLACEMENT MUSIC THEORY

081540 **1 credit** **Grades 10, 11, 12** **Codes: FA, W***

This course prepares students for the Advanced Placement Examination in Music Theory. The goal of this course is to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. Students will be required to read, notate, compose, perform, and listen to music. The student's ability to read and write musical notation is critical to this course. The student must have basic performance skills in voice or on an instrument.

MUSIC THEORY

089954 **1 credit** **Grades 9, 10, 11, 12** **Code: FA**

This course focuses on the theoretical aspects of music. Ear-training, sight-reading, harmony, form, and analysis will be explored. Composition may be an outgrowth of this course.

INSTRUMENTAL ELECTIVES

CLASS PIANO I

080514 **1 credit** **Grades 9, 10, 11, 12** **Code: FA**

This course provides the basic techniques of piano performance. The course will also include the study of music theory, history, and literature. Activities may include improvisation, transposition, and solo and ensemble work. A possible outgrowth of this class may be public recitals. It is suggested that the members of the class have access to a piano after regular school hours for practice purposes. No prior experience in piano performance is necessary. A music workbook is a requirement for this course.

CLASS PIANO II

080524	1 credit	Grades 10, 11, 12	Code: FA
---------------	-----------------	--------------------------	-----------------

Prerequisite: Class Piano I**CLASS PIANO III**

080534	1 credit	Grades 11, 12	Code: FA
---------------	-----------------	----------------------	-----------------

Prerequisite: Class Piano II**CLASS PIANO IV**

080544	1 credit	Grade 12	Code: FA
---------------	-----------------	-----------------	-----------------

Prerequisite: Class Piano III

These courses are designed for the student who wishes to develop more advanced skills in piano performance. A possible outgrowth of this class may be public recitals. A music workbook is a requirement for this course.

CONCERT BAND I

087034	1 credit	Grades 9, 10, 11, 12	Code: FA
---------------	-----------------	-----------------------------	-----------------

CONCERT BAND II

087035	1 credit	Grades 10, 11, 12	Code: FA
---------------	-----------------	--------------------------	-----------------

Prerequisite: Concert Band I**CONCERT BAND III**

087036	1 credit	Grades 11, 12	Code: FA
---------------	-----------------	----------------------	-----------------

Prerequisite: Concert Band II**CONCERT BAND IV**

087037	1 credit	Grade 12	Code: FA
---------------	-----------------	-----------------	-----------------

Prerequisite: Concert Band III and approval of instructor

These courses require satisfactory completion of instruction in a middle school ensemble or its equivalent for admission to this class. Music of levels II, III, and IV in difficulty will be studied and performed. Students will continue developing skills in the basic music fundamentals (embouchure, technique, expression, intonation, etc.). After-school rehearsals and public performances outside the regular school day are a crucial component of these courses. A music method book and formal concert attire is a requirement for these classes.

GUITAR I

08065T or U	½ credit	Grades 9, 10, 11, 12	Code: FA
--------------------	-----------------	-----------------------------	-----------------

080615	1 credit	Grades 9, 10, 11, 12	Code: FA
---------------	-----------------	-----------------------------	-----------------

GUITAR II

08066T or U	½ credit	Grades 10, 11, 12	Code: FA
--------------------	-----------------	--------------------------	-----------------

080616	1 credit	Grades 10, 11, 12	Code: FA
---------------	-----------------	--------------------------	-----------------

Prerequisite: Guitar I**GUITAR III**

08067T or U	½ credit	Grades 11, 12	Code: FA
--------------------	-----------------	----------------------	-----------------

080617	1 credit	Grades 11, 12	Code: FA
---------------	-----------------	----------------------	-----------------

Prerequisite: Guitar II**GUITAR IV**

08068T or U	½ credit	Grade 12	Code: FA
--------------------	-----------------	-----------------	-----------------

080618	1 credit	Grade 12	Code: FA
---------------	-----------------	-----------------	-----------------

Prerequisite: Guitar III

These courses provide the basic techniques of guitar performance. These courses will also include the study of music theory, history, and literature. Activities may include improvisation, transposition, and solo and ensemble work. A possible outgrowth of these classes may be public performances. It is a requirement that all students have a guitar of their own. No prior experience in guitar instruction is necessary. A music workbook is a requirement for this course.

JAZZ ENSEMBLE I (HONORS)

087174	1 credit	Grades 9, 10, 11, 12	Codes: FA, W
--------	----------	----------------------	--------------

*Prerequisite: Approval of instructor***JAZZ ENSEMBLE II (HONORS)**

087274	1 credit	Grades 10, 11, 12	Codes: FA, W
--------	----------	-------------------	--------------

*Prerequisite: Jazz Ensemble I***JAZZ ENSEMBLE III (HONORS)**

087374	1 credit	Grades 11, 12	Codes: FA, W
--------	----------	---------------	--------------

*Prerequisite: Jazz Ensemble II***JAZZ ENSEMBLE IV (HONORS)**

087474	1 credit	Grade 12	Codes: FA, W
--------	----------	----------	--------------

Prerequisite: Jazz Ensemble III

These courses provide the opportunity for the study of jazz, rock, and dance band styles, and are open to advanced band students through an annual audition. The courses foster creativity through improvisation and performance in the rock, jazz, and swing style. Students are required to prepare scales and solos. The solos must be selected from a variety of styles that includes piano or audio accompaniment. After-school rehearsals and public performances outside the regular school day are a crucial component of these courses. A music method book and formal concert attire is a requirement for these classes.

CONCERT ORCHESTRA I

088214	1 credit	Grades 9, 10, 11, 12	Code: FA
--------	----------	----------------------	----------

CONCERT ORCHESTRA II

088224	1 credit	Grades 10, 11, 12	Code: FA
--------	----------	-------------------	----------

*Prerequisite: Orchestra I***CONCERT ORCHESTRA III**

088234	1 credit	Grades 11, 12	Code: FA
--------	----------	---------------	----------

*Prerequisite: Orchestra II***CONCERT ORCHESTRA IV**

088244	1 credit	Grade 12	Code: FA
--------	----------	----------	----------

Prerequisite: Orchestra III

These courses require satisfactory completion of string instruction in a middle school ensemble or its equivalent. Music of levels II, III, and IV in difficulty will be studied and performed. Students will continue developing skills in the basic music fundamentals (bowing, hand positioning, expression, intonation, etc.). After-school rehearsals and public performances outside the regular school day are a crucial component of these courses. A music method book and formal concert attire is a requirement for these classes.

SYMPHONIC ORCHESTRA I (HONORS)

088314	1 credit	Grades 9, 10, 11, 12	Codes: FA, W
--------	----------	----------------------	--------------

*Prerequisite: Approval of instructor***SYMPHONIC ORCHESTRA II (HONORS)**

088324	1 credit	Grades 10, 11, 12	Codes: FA, W
--------	----------	-------------------	--------------

*Prerequisite: Orchestra I***SYMPHONIC ORCHESTRA III (HONORS)**

088334	1 credit	Grades 11, 12	Codes: FA, W
--------	----------	---------------	--------------

*Prerequisite: Orchestra II***SYMPHONIC ORCHESTRA IV (HONORS)**

088344	1 credit	Grade 12	Codes: FA, W
--------	----------	----------	--------------

Prerequisite: Orchestra III

These courses require a higher level of musical proficiency (IV, V, and VI) than Orchestra. Admission to these classes will be determined by an annual audition. Students will develop advanced levels of competencies in the areas of technical skill, stylistic understanding, historical background, and aesthetic awareness through the study and performance of quality orchestra literature from a variety of styles and time periods. In addition to the ensemble literature, students will be required to prepare additional scales and solos. The solos must be a minimum of level IV and currently listed on the Maryland Orchestra Directors Association approved list. After-school rehearsals and public performances outside the regular school day are a crucial component of these courses. A music method book and formal concert attire is a requirement for these classes.

SYMPHONIC BAND I (HONORS)

087144	1 credit	Grades 9, 10, 11, 12	Codes: FA, W
--------	----------	----------------------	--------------

*Prerequisite: Approval of instructor***SYMPHONIC BAND II (HONORS)**

087244	1 credit	Grades 10, 11, 12	Codes: FA, W
--------	----------	-------------------	--------------

*Prerequisite: Symphonic Band I***SYMPHONIC BAND III (HONORS)**

087344	1 credit	Grades 11, 12	Codes: FA, W
--------	----------	---------------	--------------

*Prerequisite: Symphonic Band II***SYMPHONIC BAND IV (HONORS)**

087444	1 credit	Grade 12	Codes: FA, W
--------	----------	----------	--------------

Prerequisite: Symphonic Band III

These courses require a higher level of musical proficiency (IV, V, and VI) than Concert Band. Admission to these classes will be determined by an annual audition. Students will develop advanced levels of competence in the areas of technical skill, stylistic understanding, historical background, and aesthetic awareness through the study and performance of quality band literature from a variety of styles and time periods. In addition to the ensemble literature, students will be required to prepare additional scales and solos. The solos must be a minimum of level IV and currently listed on the Maryland Band Directors Associations approved list. After-school rehearsals and public performances outside the regular school day are a crucial component of these courses. A music method book and formal concert attire is a requirement for these classes.

VOCAL ELECTIVES**CHAMBER CHOIR I (HONORS)**

087124	1 credit	Grades 9, 10, 11, 12	Codes: FA, W
--------	----------	----------------------	--------------

*Prerequisite: Approval of instructor***CHAMBER CHOIR II (HONORS)**

087224	1 credit	Grades 10, 11, 12	Codes: FA, W
--------	----------	-------------------	--------------

*Prerequisite: Chamber Choir I***CHAMBER CHOIR III (HONORS)**

087324	1 credit	Grades 11, 12	Codes: FA, W
--------	----------	---------------	--------------

*Prerequisite: Chamber Choir II***CHAMBER CHOIR IV (HONORS)**

087424	1 credit	Grade 12	Codes: FA, W
--------	----------	----------	--------------

Prerequisite: Chamber Choir III and approval of instructor

These courses require a high level of musical proficiency, which is to be determined by an annual audition for admission to these classes. Chamber Choir is designed for singers performing chamber music from all styles and time periods. Students will be required to prepare scales and solos as well as rhythmic and melodic sight-singing. The solos must be a minimum of level IV and currently listed on the Maryland Choral Directors Association approved list. After-school rehearsals and public performances outside of the regular school day are a crucial component of these courses. Formal concert attire is a requirement for these classes.

CONCERT CHOIR I

087114	1 credit	Grades 9, 10, 11, 12	Code: FA
--------	----------	----------------------	----------

*Prerequisite: Approval of instructor***CONCERT CHOIR II**

087214	1 credit	Grades 10, 11, 12	Code: FA
--------	----------	-------------------	----------

*Prerequisite: Concert Choir I***CONCERT CHOIR III**

087314	1 credit	Grades 11, 12	Code: FA
--------	----------	---------------	----------

*Prerequisite: Concert Choir II***CONCERT CHOIR IV**

087414	1 credit	Grade 12	Code: FA
--------	----------	----------	----------

Prerequisite: Concert Choir III and approval of instructor

These courses are designed to expose experienced singers to the best of accompanied and unaccompanied choral literature through study and performance and may require a yearly audition. Students will work on melodic and rhythmic sight-reading skills. The ability to read music is strongly recommended. After-school rehearsals and public performances outside of the regular school day are a crucial component of these courses. Formal concert attire is a requirement for these

classes.

MEN'S CHORUS I

081015 1 credit Grades 9, 10, 11, 12 Code: FA

Prerequisite: Approval of instructor

MEN'S CHORUS II

081025 1 credit Grades 10, 11, 12 Code: FA

Prerequisite: Men's Chorus I and approval of the instructor

MEN'S CHORUS III

081035 1 credit Grades 11, 12 Code: FA

Prerequisite: Men's Chorus II and approval of the instructor

MEN'S CHORUS IV

081045 1 credit Grade 12 Code: FA

Prerequisite: Men's Chorus III and approval of the instructor

These courses are designed to help young men develop both their voices and music theory skills. These classes will cover a variety of styles of music including pop, folk, and classical music. After-school rehearsals and public performances outside of the regular school day are a crucial component of these courses. Formal concert attire is a requirement for these classes.

SHOW CHOIR I (HONORS)

089914 1 credit Grades 9, 10, 11, 12 Codes: FA, W

Prerequisite: Approval of instructor

SHOW CHOIR II (HONORS)

089924 1 credit Grades 10, 11, 12 Codes: FA, W

Prerequisite: Show Choir I

SHOW CHOIR III (HONORS)

089934 1 credit Grades 11, 12 Codes: FA, W

Prerequisite: Show Choir II

SHOW CHOIR IV (HONORS)

089944 1 credit Grade 12 Codes: FA, W

Prerequisite: Show Choir III and approval of instructor

These courses are for advanced vocal students as determined by an annual audition. Presentation of works from the musical stage in addition to other selected materials will be emphasized. Students will develop the skills necessary to read, interpret, and present selections from musical theatre. Students will be required to write and perform dance routines. Student will learn music from a variety of styles including jazz, pop, and Broadway musicals. Students will be required to prepare scales and solos. The solos must be a minimum of level IV and currently listed on the Maryland Choral Directors Association approved list. After-school rehearsals and public performances outside of the regular school day are a crucial component of these courses. Formal concert attire is a requirement for these classes.

WOMEN'S CHORUS I

081016 1 credit Grades 9, 10, 11, 12 Code: FA

Prerequisite: Approval of instructor

WOMEN'S CHORUS II

081026 1 credit Grades 10, 11, 12 Code: FA

Prerequisite: Women's Chorus I

WOMEN'S CHORUS III

081036 1 credit Grades 11, 12 Code: FA

Prerequisite: Women's Chorus II

WOMEN'S CHORUS IV

081046 1 credit Grade 12 Code: FA

Prerequisite: Women's Chorus III

These courses are designed to help young women develop their voices, sight-singing, and music theory skills. These classes will cover a variety of styles of music including pop, folk, and classical music. After-school rehearsals and public performances outside the regular school day are a crucial component of these courses. Formal concert attire is a requirement for these classes.

DANCE PROGRAM

The dance program is a four-year comprehensive program that allows students to discover their own inherent aptitude for the communication of ideas, thoughts, and feelings through the art of dance. Students interested in pursuing dance in college should plan on building their performance portfolio as soon as possible. The study of dance promotes aesthetic sensitivity and provides an opportunity for students to experience intellectual, physical, emotional and social growth. Students observe, respond, create and perform using the body as an instrument to communicate feelings, thoughts and ideas. Through exploring dance concepts, students demonstrate critical thinking skills and core values as well as develop personal integrity. The sequentially developed program presents a broad cultural and historical perspective and provides unique opportunities for cross-curricular connections.

DANCE I

062014

2 credits

Grade 9

Prerequisite: Approval of Instructor – Application and Audition during 8th grade year

This course is available to students who have been selected through an application and audition process during their 8th grade year. This course provides students with an introduction to a basic working knowledge of performance concepts that they can apply to all dance forms. Experiences are based on fundamentals of ballet, modern, and jazz dance. This course fulfills the graduation requirement for the Fine Arts elective as it provides instruction in aesthetics, dance history, anatomy, choreographic techniques, and performance components. May need to attend after-school practices, events, and performances during a school year.

DANCE II

062024

2 credits

Grade 10

Prerequisite: Dance I

This course is available to students who were selected through an application and audition process during their 8th grade year and successfully completed Dance. This course provides students with an introduction to a basic working knowledge of performance concepts that they can apply to all dance forms. Experiences are based on fundamentals of ballet, modern, and jazz dance. This course fulfills the graduation requirement for the Fine Arts elective as it provides instruction in aesthetics, dance history, anatomy, choreographic techniques, and performance components. May need to attend after-school practices, events, and performances during a school year.

THEATRE ELECTIVES

The theatre electives provide students opportunities to explore the creative process through collaborative theatre activities. In addition, these courses are designed to provide hands-on experience for those students who have an interest in preparing for professional theatre and related careers.

FILM STUDY

01804T or U

½ credit

Grades 11, 12

This course will focus on an analysis of film with an emphasis upon the elements of plot, setting, style, and point of view. The course will include viewing, listening, and researching film.

LITERATURE AND FILM

01806T or U

½ credit

Grades 11, 12

This course will explore literature and the direct tie it has to film. Students will read literary works and evaluate their translation into film.

STAGE PRODUCTION I

014064

1 credit

Grades 10, 11, 12

Code: FA

Prerequisite: Theatre Arts and approval of instructor

STAGE PRODUCTION II

014074

1 credit

Grades 11, 12

Code: FA

Prerequisite: Stage Production I and approval of instructor

STAGE PRODUCTION III

014084

1 credit

Grade 12

Code: FA

Prerequisite: Stage Production II and approval of instructor

These elective courses are designed for the student who wishes to gain experience in the various aesthetic, technical and commercial aspects of theatre, which are essential in the production of a play for an audience. Quarterly after-school

rehearsals and public performances outside the regular school day are a crucial component of this course. Safety Glasses and gloves are required for these classes.

THEATRE ARTS

014024 **1 credit** **Grades 9, 10, 11, 12** **Code: FA**

This course provides the students with an introduction to the many aspects of theatre including acting, directing, stagecraft, theatre history, theatre criticism, and play analysis.

ACTING

014034 **1 credit** **Grades 10, 11, 12** **Code: FA**

Prerequisite: Theatre Arts and approval of Instructor

This course provides advanced skills in acting, resume development, stage makeup, theatre history, theatre criticism, and play analysis. Quarterly after-school rehearsals and public performances outside the regular school day are a crucial component of this course.

ADVANCED ACTING I (HONORS)

014044 **1 credit** **Grades 11, 12** **Codes: FA, W**

Prerequisite: Acting and approval of Instructor

This course provides advanced skills in acting, resume development, costumes, old age and fantasy makeup, theatre history, theatre criticism, and play analysis. Students will focus on different genres of theatre such as Dinner Theatre and Children's Theatre. Quarterly after-school rehearsals and public performances outside the regular school day are a crucial component of this course.

ADVANCED ACTING II (HONORS)

014054 **1 credit** **Grade 12** **Codes: FA, W**

Prerequisite: Advanced Acting I and approval of Instructor

This course provides advanced skills in acting, directing, resume development, costumes, special makeup, scenic design, acting for the camera, theatre history, theatre criticism, and play analysis. Each student will have to direct a one act play by the end of the year. Quarterly after-school rehearsals and public performances outside the regular school day are a crucial component of this course.

MULTIMEDIA PRODUCTION I

015005 **1 credit** **Grades 10, 11, 12** **Code: FA**

This course includes the use of video and editing equipment, both in and out of the classroom. Students will be introduced to the various types of multimedia such as news broadcast, television, film, advertising, journalism, talk shows, documentaries, radio, music, magazines, and the Internet. The course also includes the study of the history and development of the media and the ethics and legalities of media production.

MULTIMEDIA PRODUCTION II

015006 **1 credit** **Grades 11, 12**

Prerequisite: Multimedia Production I

MULTIMEDIA PRODUCTION III (HONORS)

015007 **1 credit** **Grade 12** **Codes: FA, W**

Prerequisite: Multimedia Production II

These courses include the use of video and editing equipment, both in and out of the studio, including the writing and delivery of the in-school broadcasts of the morning announcements (equipment permitting). The students will also participate in the creation and production of film, weekly magazines, and remote broadcasts using computer-generated and digital multimedia equipment. These classes will be project-based with students enhancing previously acquired knowledge and skills through hands-on work.



MATHEMATICS

The high school mathematics program is designed to provide students the opportunity to prepare for the world of work or continue to pursue their interests in mathematics. It takes into consideration students who are planning for careers in business and industry as well as those who are preparing for college. All courses are designed to motivate students to use higher-level thinking and to transfer this knowledge to everyday experiences. Technology is an integral part of instruction. The chart below provides guidelines for a **recommended** sequence of mathematics courses.

Recommended Sequence of Mathematics Courses

9 th Grade		10 th Grade	11 th Grade	12 th Grade
Foundations of Algebra	Algebra I	Geometry or Geometry (Honors)	Algebra with Trig and Stats	Introduction to Advanced Math Algebra II
Algebra I			Algebra II (Honors)	Adv. Algebra with Trig. (Honors) Pre-Calculus (Honors) AP Statistics
Geometry (Honors)		Algebra II (Honors)	Advanced Algebra with Trig. (Honors)	Pre-Calculus (Honors) AP Statistics
			Pre-Calculus (Honors)	AP Calculus AP Statistics

AP Statistics can be taken after successful completion of Algebra II and may be doubled with the appropriate sequential mathematics course.

ADVANCED ALGEBRA WITH TRIGONOMETRY (HONORS)

032044

1 credit

Grades 10, 11, 12

Code: W, CC

Prerequisite: Algebra II and Geometry

This course is designed to further prepare students for Pre-Calculus. Topics include quadratic equations and functions, variation and polynomial equations, analytic geometry, exponential and logarithmic functions, matrices and determinants, vectors, trigonometric functions and their graphs, trigonometry and triangles, trigonometric identities and inverse functions/equations. A graphing calculator is highly recommended for this course. *Under conditions determined by the College of Southern Maryland (CSM), this course may earn college credit.*

ADVANCED PLACEMENT CALCULUS AB

037020

1 credit

Grades 11, 12

Code: W*

Prerequisite: Pre-Calculus

This course is a college-level course designed to prepare students for the Advanced Placement (AP) Calculus AB exam. Major topics of study in the course include the use of limits, derivatives, definite integrals, differential equation, and the applications of these concepts. The course uses a multi-representative approach to calculus, with concepts and problems expressed numerically, graphically, verbally, and analytically. A graphing calculator is highly recommended.

ADVANCED PLACEMENT CALCULUS BC

037025

1 Credit

Grade 12

Code: W*

Prerequisite: AP Placement Calculus AB

This course is a college-level course designed to prepare students for the Advanced Placement (AP) Calculus BC exam. The course emphasizes a multi-representational approach to calculus with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. Technology will be used regularly to reinforce the relationships among the multiple representations of functions, to confirm written work, to implement experimentation, and to assist in interpreting results. A graphing calculator is highly recommended for this course.

ADVANCED PLACEMENT STATISTICS**037030****1 credit****Grades 11, 12****Code: W******Prerequisite: Algebra II***

This course is a college-level course designed to prepare students for the Advanced Placement (AP) Statistics exam. Prior to 12th grade, the course can only be taken concurrently with another math course in the recommended sequence. During the 12th grade, the course can satisfy the 4th year math requirement for college bound advanced math students who are not interested in pursuing a STEM-related field of study. The four broad conceptual themes of the course include exploring data, designing a study, anticipating patterns, and statistical inference with emphasis placed on critical thinking and problem solving. A graphing calculator is highly recommended.

ALGEBRA I**031514****1 credit****Grades 9, 10****Code: EOC**

This course develops the algebraic skills and concepts that are critical to success in future mathematics courses. Students will apply algebraic concepts in a variety of problem solving situations. Topics include linear, quadratic and exponential equations, real and complex numbers, expressions with rational and irrational numbers, functions and modeling, and descriptive statistics.

ALGEBRA I (INDIVIDUALIZED)**03991V or W****1 credit****Grade 9****Code: EOC**

This course is available to students on recommendation of the Individualized Education Program (IEP) committee. Individual goals and objectives are developed in an IEP that reflects a student's level of performance and rate of learning.

ALGEBRA II (HONORS)**032010****1 credit****Grades 10, 11****Codes: EOC, W*****Prerequisite: Geometry or Geometry Honors***

This course is designed for students who have shown interest and ability in above level mathematics work. The course will include a more in-depth study of the topics covered in the Algebra II course. Additional topics will include the fundamental theorem of algebra, the binomial theorem, and applying polynomial identities to the complex number system.

ALGEBRA II**032014****1 credit****Grades 9, 10, 11, 12****Code: EOC*****Prerequisite: Geometry***

This course further develops the real number system and knowledge of linear, quadratic, and exponential functions. Topics will include polynomial, rational, and radical functions and algebraic modeling. Students solve various types of equations, including quadratic equations over the complex number system and exponential equations using the properties of logarithms.

ALGEBRA WITH TRIGONOMETRY AND STATISTICS**034014****1 credit****Grades 11, 12*****Prerequisite: Algebra I and Geometry***

This course focuses on algebraic problem solving techniques, trigonometric concepts, and statistical analysis. Students will apply the Maryland College and Career Ready Standards (MCCRS) math practices in a variety of problem solving situations. Topics in the course include linear, quadratic and exponential equations, real and complex numbers, functions and modeling, trigonometry and analytic trigonometry, and descriptive statistics. Successful completion of this course fulfills one algebra credit.

ALGEBRA WITH TRIGONOMETRY AND STATISTICS (INDIVIDUALIZED)**03401V or W****1 credit****Grades 11, 12*****Prerequisite: Algebra I and Geometry***

This course is available to students on recommendation of the Individualized Education Program (IEP) committee. Individual goals and objectives are developed in an IEP that reflects a student's level of performance and rate of learning. Successful completion of this course fulfills one algebra credit.

FOUNDATIONS OF ALGEBRA**03051T 1 credit Grade 9**

This course is designed for selected students to help build a foundational knowledge of algebraic concepts prior to enrollment in Algebra I. Topics will include integers, rational numbers, algebraic expressions, linear equations, inequalities, coordinate plane graphing, and patterns. Successful completion of this course fulfills one algebra credit.

GEOMETRY**033014 1 credit Grades 9, 10, 11, 12*****Prerequisite: Algebra I***

This course is designed to provide students with a basic knowledge of plane and solid geometric figures and their properties. Topics will include logical deductions using postulates, definitions, and theorems of plane geometry, trigonometry, three dimensional figures, and connections to algebra.

GEOMETRY (INDIVIDUALIZED)**03301V or W 1 credit Grades 9, 10, 11, 12*****Prerequisite: Algebra I***

This course is available to students on recommendation of the Individualized Education Program (IEP) committee. Individual goals and objectives are developed in an IEP that reflects a student's level of performance and rate of learning.

GEOMETRY (HONORS)**033010 1 credit Grades 9, 10 Code: W*****Prerequisite: Algebra I***

This course is designed for students who have shown interest and ability in above level mathematics work. The course will include a more in-depth study of the topics covered in the geometry course. Additional topics will include the laws of sine and cosine, deriving formulas, and constructing tangent lines.

INTRODUCTION TO ADVANCED MATHEMATICS**035014 1 credit Grade 12 Code: CC*****Prerequisite: Must be taken during 12th grade***

This course develops student skills in interpreting, understanding, and using quantitative information. It teaches algebraic reasoning and modeling skills through a quantitative literacy lens and emphasizes critical thinking and statistical reasoning. Additional topics include solving linear and quadratic equations and graphing linear and quadratic functions. Successful completion of this course fulfills one algebra credit. *Under conditions determined by the College of Southern Maryland (CSM), this course may earn college credit.*

INTRODUCTION TO ADVANCED MATHEMATICS (INDIVIDUALIZED)**03501V or W 1 credit Grade 12 Code: CC*****Prerequisite: Must be taken during 12th grade***

This course is available to students on recommendation of the Individualized Education Program (IEP) committee. Individual goals and objectives are developed in an IEP that reflects a student's level of performance and rate of learning. Successful completion of the course fulfills one algebra credit. *Under conditions determined by the College of Southern Maryland (CSM), this course may earn college credit.*

PRE-CALCULUS (HONORS)**037010 1 credit Grades 11, 12 Codes: CC, W*****Prerequisite: Advanced Algebra with Trigonometry or Algebra II Honors***

This course is specifically designed to give students an in-depth study of topics that are essential to the study of Calculus. Such topics include theory of equations, permutations, variation, complex numbers, the binomial theorem, probability, and statistics. A graphing calculator is highly recommended for this course. *Under conditions determined by the College of Southern Maryland (CSM), this course may earn college credit.*



PHYSICAL EDUCATION

The Physical Education program is an essential part of the total education of the individual. At the high school level, students should experience a variety of activities which will provide them with a thorough knowledge of related content, sufficient physical skill to enjoy participation, and the resources to begin improving their personal level of fitness. Students should acquire responsible social behaviors, awareness and acceptance of self, and an understanding of the relationship between physical activity and maintaining lifetime fitness. In association with these courses, students are responsible for a lock rental fee and uniform purchase.

ADAPTED PHYSICAL EDUCATION

079984 1 credit Grades 9, 10, 11, 12

This course is available to students on recommendation of the Individualized Education Program (IEP) team. Individual goals and objectives are developed through the IEP process, which reflects a student's present level of performance.

ADVANCED PHYSICAL EDUCATION I

07053T or U ½ credit Grades 10, 11, 12

070534 1 credit Grades 10, 11, 12

Prerequisite: Fitness for Life

ADVANCED PHYSICAL EDUCATION II

07054T or U ½ credit Grades 11, 12

070544 1 credit Grades 11, 12

Prerequisite: Advanced Physical Education I

ADVANCED PHYSICAL EDUCATION III

07055T or U ½ credit Grade 12

070554 1 credit Grade 12

Prerequisite: Advanced Physical Education II

These courses emphasize the development of intermediate skills in a wide variety of individual, team, and lifetime sports. All classes are open on a coeducational basis and are structured to meet the interests and needs of the students.

AEROBICS I

07997T or U ½ credit Grades 10, 11, 12

Prerequisite: Fitness for Life

AEROBICS II

07988T or U ½ credit Grades 11, 12

Prerequisite: Aerobics I

AEROBICS III

07989T or U ½ credit Grade 12

Prerequisite: Aerobics II

These courses emphasize dance movements as well as a mixture of running, hopping, skipping, jumping, and stretching. All activities are choreographed to include warm-up, conditioning, and cool-down phases in the development of cardio-respiratory fitness.

BASIC WEIGHT TRAINING I

07065T or U ½ credit Grades 11, 12

Prerequisite: Introduction to Weight Training

BASIC WEIGHT TRAINING II

07066T or U ½ credit Grade 12

Prerequisite: Basic Weight Training I

These courses emphasize the lifetime application of weight training as it relates to personal fitness. All classes are open on a coeducational basis and are structured to meet the needs and interests of the students.

FITNESS FOR LIFE**070514** **½ credit** **Grades 9, 10, 11, 12** **Code: EOC*****This course is required for ALL students and should be taken in Grade 9.***

This course consists of an assessment of health and skill related components of fitness and the formulation of individual fitness programs. It is designed to provide adolescents with knowledge and skills needed to engage in a physically active, healthy lifestyle throughout life.

INTRODUCTION TO WEIGHT TRAINING**07064T or U** **½ credit** **Grades 10, 11, 12*****Prerequisite: Fitness for Life***

This course emphasizes weight training techniques. Students will be instructed in the lifetime application of weight training as it relates to personal fitness. All classes are open on a coeducational basis and are structured to meet the needs and interests of the students.

LIFETIME SPORTS**079964** **1 credit** **Grades 10, 11, 12*****Prerequisite: Fitness for Life***

This course introduces skiing, orienteering, bicycling, hiking, swimming and boating safety, bowling, and other life sports as determined by student interest are offered. These courses consist of advanced training and techniques in a minimum of four lifetime sports skills. Students would gain an understanding and appreciation of the value of leisure-time recreational activities.

PHYSICAL EDUCATION AND SPORT I**07061T or U** **½ credit** **Grades 10, 11, 12*****Prerequisite: Fitness for Life*****PHYSICAL EDUCATION AND SPORT II****07062T or U** **½ credit** **Grades 10, 11, 12*****Prerequisite: Physical Education and Sport I***

These courses emphasize the development of intermediate skills and a wide variety of physical education activities. All classes are open on a coeducational basis and are structured to meet the interests and needs of the students.

PHYSICAL EDUCATION LEADERSHIP AND DISABILITY AWARENESS**079985** **1 credit** **Grades 10, 11, 12*****Prerequisite: Approval of instructor***

This elective course develops leadership skills in physical education and recreation. It allows students to carry out specific responsibilities in connection with the routine organization of a class when working with students with disabilities. Students will be given specific training targeted toward effective peer tutoring. As the course progresses, there will be practical experiences geared toward a better understanding of the many areas of teaching students with disabilities in physical education based on an Individualized Education Program (IEP). Specific assignments will center on disability awareness.

SPORTS OFFICIATING I**079944** **1 credit** **Grades 10, 11, 12*****Prerequisite: Fitness for Life*****SPORTS OFFICIATING II****079954** **1 credit** **Grades 11, 12*****Prerequisite: Sports Officiating I*****SPORTS OFFICIATING III****079955** **1 credit** **Grade 12*****Prerequisite: Sports Officiating II***

These courses train students in techniques and rules of officiating various sports. Sports officiating experience is provided in the Physical Education program and in the intramural program of the school. The proper use of responsibility and authority is a major task for students enrolled in this course. In addition, qualified students will officiate in the Charles County middle school tournaments.

SWIMMING AND CONDITIONING I

070734 1 credit Grades 10, 11, 12

Prerequisite: *Fitness for Life, ability to swim 500 yards non-stop*

SWIMMING AND CONDITIONING II

070735 1 credit Grades 11, 12

Prerequisite: *Swimming and Conditioning I*

These courses offer the opportunity of both aquatic and land-based conditioning techniques to be introduced to students. These techniques will help to continue the fitness for life goals introduced in the 9th grade physical education curriculum.

SWIMMING AND LIFEGUARDING

070744 1 credit Grades 10, 11, 12

Prerequisite: *Fitness for Life and departmental approval*

This course is designed to certify the student as an American Red Cross lifeguard. Through lectures, videos, and practice sessions, students will be given the skills and knowledge needed to prevent and respond to water emergencies and have the skills to work as a lifeguard. In association with this course, there is a \$120 certification fee to become a Red Cross Lifeguard upon successful completion of the tests and course.

WALKING FOR WELLNESS I

07067T or U ½ credit Grades 10, 11, 12

070664 1 credit Grades 10, 11, 12

Prerequisite: *Fitness for Life*

WALKING FOR WELLNESS II

07068T or U ½ credit Grades 11, 12

070684 1 credit Grades 11, 12

Prerequisite: *Walking for Wellness I*

WALKING FOR WELLNESS III

07069T or U ½ credit Grades 11, 12

070694 1 credit Grades 11, 12

Prerequisite: *Walking for Wellness II*

These courses emphasize the benefits of walking for fitness. Technology will be a key component of motivation for the students. Pedometers, heart rate monitors, and other software will be used to track and store data on walking wellness.

WATER SAFETY INSTRUCTOR

070814 1 credit Grades 11, 12

Prerequisite: *Fitness for Life; Seventeen years old by the end of the school year, have a current American Red Cross Lifeguarding Certificate, and departmental approval*

This course is for current American Red Cross Lifeguards who wish to become certified American Red Cross Water Safety Instructors with the ability to teach swimming to others. Students are required to earn a minimum of 80 percent on a pre-course test and pass all skills tests. The courses require providing assistance with the scheduled classes at the pool.

WEIGHT TRAINING AND CONDITIONING I

079914 1 credit Grades 10, 11, 12

Prerequisite: *Fitness for Life and departmental approval*

WEIGHT TRAINING AND CONDITIONING II

079924 1 credit Grades 11, 12

Prerequisite: *Weight Training and Conditioning I and departmental approval*

WEIGHT TRAINING AND CONDITIONING III

079934 1 credit Grade 12

Prerequisite: *Weight Training and Conditioning II and departmental approval*

These courses provide instruction in weight training techniques, development of the understanding of muscle physiology, and how progressive resistance exercises can be used to develop and condition the human body. The conditioning phase of the program is composed of running and other movement exercises, which improve total fitness. Students are instructed in a sport specific application of weight training to meet personal needs for improving fitness.



SCIENCE

Charles County's science program is that component of the school curriculum where student inquiry and discovery can develop and flourish. Science instruction encourages examining, probing, questioning, and exploring. It allows students to cultivate personal strategies for learning and problem solving. Each student must earn a minimum of three credits in science as a requirement for graduation. The recommended sequence for science includes Earth Systems, Biology, and Chemistry. Levels of classes are offered to meet a variety of instructional and educational needs. Advanced Placement courses are also offered.

- **Advanced Placement (AP)** courses are provided for the student who has demonstrated the ability to move beyond enrichment level content and skills acquisition based on achievement and interest. AP science courses are fast-paced and support students in cultivating important skills and habits of mind that are essential for college and career readiness through hands-on immersion into the content.
- **Honors** courses are designed for students who have an interest in science, the ability to move beyond grade level in content, and the willingness to work independently on projects.
- **A Level** courses are designed for students whose career choices may require skills and content knowledge in science and who have demonstrated mastery of appropriate basic skills.

ADVANCED PLACEMENT BIOLOGY

047310 **1 credit** **Grades 11, 12** **Code: W***

Prerequisite: *Biology and Chemistry*

This course prepares students for the Advanced Placement examination. This course involves an intensive study of college-level biology. Advanced mathematics may be employed in the solution of problems and laboratory analysis.

ADVANCED PLACEMENT CHEMISTRY

047110 **1 credit** **Grades 11, 12** **Code: W***

Prerequisite: *Chemistry; Algebra II is recommended and may be taken concurrently*

This course prepares students for the Advanced Placement examination. This course involves an intensive study of college-level general chemistry. Advanced mathematics may be employed in the solution of problems and laboratory analysis.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE

044510 **1 credit** **Grades 11, 12** **Code: W***

Prerequisite: *Algebra I, Biology, and Chemistry (may be taken concurrently)*

This course prepares students for the Advanced Placement examination. This course provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.

ADVANCED PLACEMENT PHYSICS 1: ALGEBRA-BASED

047220 **1 credit** **Grades 11, 12** **Code: W***

Prerequisite: *Algebra II (may be taken concurrently)*

This course is equivalent to a first-semester college course in algebra-based physics. This course helps students to develop a deep understanding of introductory physics content and focus on applying their knowledge through inquiry labs. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. This course will also introduce students to electric circuits. Students will be able to apply their knowledge through inquiry labs.

ADVANCED PLACEMENT PHYSICS 2: ALGEBRA-BASED

047221 **1 credit** **Grade 12** **Code: W***

Prerequisite: *AP Physics 1: Algebra-Based or Honors Physics with PreCalculus concurrently and instructor's approval*

This course is the equivalent to a second-semester college course in algebra-based physics. This course helps students to develop a deep understanding of physics content through inquiry-based learning and focus on the development of

scientific critical thinking and reasoning skills. The course covers fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics.

ADVANCED PLACEMENT PHYSICS C

047230 **1 credit** **Grade 12** **Code: W***

Prerequisite: Concurrently taking AP Calculus and completion of AP Physics 1

This course forms the first part of the college sequence for students planning to major in the physical sciences or engineering. Methods of calculus are used whenever appropriate in formulating physical principles and in applying them to physical problems. This course is more intensive and analytic than the B course. Strong emphasis is placed on solving a variety of challenging problems, some requiring calculus. The subject matter of the C course is principally mechanics and electricity and magnetism, with approximately equal emphasis on these two areas.

BIOLOGY (HONORS)

042510 **1 credit** **Grade 10** **Codes: EOC, W**

Prerequisite: Earth Systems

This course provides an in-depth investigation of biological principles and concepts with a special emphasis on open-ended laboratory investigations. Higher-level process skills (i.e. analyzing, synthesizing, and evaluating data) are emphasized.

BIOLOGY (A LEVEL)

042511 **1 credit** **Grade 10** **Code: EOC**

Prerequisite: Earth Systems

This course provides an investigation of biological principles and concepts, and emphasizes an interpretative method of investigation utilizing process skills such as organizing, analyzing, and graphing. Class activities include numerous laboratory exercises.

BIOLOGY (INDIVIDUALIZED)

04982V or W **1 credit** **Grade 10** **Code: EOC**

Prerequisite: Earth Systems

This course increases the student's information about life processes, plant and animal life, human systems, communicable diseases, and health. This course is available to students upon recommendation of the Individualized Education Program (IEP) committee and the development of an IEP.

CHEMISTRY (HONORS)

043010 **1 credit** **Grades 10, 11, 12** **Code: W**

Prerequisite: Biology and Algebra I

This course provides an in-depth investigation of the concepts and principles of chemistry. Topics to be studied include chemical bonding, the nature of matter, periodicity, electrochemistry, quantitative relationships, and oxidation-reduction. Higher-level process skills such as analyzing, synthesizing, and evaluating data will be emphasized. Class activities will also include numerous laboratory investigations.

CHEMISTRY (A LEVEL)

043011 **1 credit** **Grades 10, 11, 12**

Prerequisite: Biology and Algebra I

This course focuses on areas of investigation include periodicity, chemical bonding, chemical reactions, etc. Emphasis will be placed on an interpretive method of investigation utilizing process skills such as observing, organizing, analyzing, and graphing. Laboratory experiences are designed to familiarize students with chemical reactions and to develop skills in using laboratory equipment.

CHEMISTRY (INDIVIDUALIZED)

04996V or W **1 credit** **Grades 10, 11, 12**

Prerequisite: Biology (may be taken concurrently)

This course emphasizes problem-solving and decision-making skills. It explores the impact of chemistry on society by addressing chemistry related technological issues that are relevant to the community and society. Students learn concepts that are needed to understand societal issues through classroom laboratory investigations, demonstrations, and discussions. This course is available to students upon recommendation of the Individualized Education Program (IEP)

Committee and the development of an IEP.

EARTH SYSTEMS (HONORS)

041520 **1 credit** **Grade 9** **Code: W**

This course provides an in-depth investigation of energy systems that exist on Earth. Earth's history, human impact, stellar evolution, and climate models are covered with a special emphasis on inquiry-based laboratory investigations. Students will engage in the practices of science and engineering to construct their understanding of the natural environment, the processes that bring about change, and the impact of earth and space science on society.

EARTH SYSTEMS (A LEVEL)

041521 **1 credit** **Grade 9**

This course will provide a comprehensive study of Earth systems while establishing concepts that will prepare students for physics and chemistry. Students are encouraged to develop problem solving skills, lab techniques, and knowledge pertinent to the science, drawing relevant connections with the physical sciences.

EARTH SYSTEMS (INDIVIDUALIZED)

041521, V, or W **1 credit** **Grade 9**

This course develops each student's information and problem solving skills through activities and experiences in the areas of Earth's history, human impact, stellar evolution, and climate. There will also be an emphasis on relating the content of Earth systems to the everyday life experiences of an Individualized Education Program (IEP).

INTRODUCTION TO ANATOMY AND PHYSIOLOGY

048224 **1 credit** **Grades 11, 12**

This course introduces students to the basics of human anatomy and physiology. Students will survey the structures and functions of human tissues, organs, and organ systems through hands-on laboratory experiences. Techniques will include dissections, applications of specific medical technologies, and data collection related to physiological processes. The application of concepts covered related to medical and health careers will be explored.

PHYSICS (HONORS)

043510 **1 credit** **Grades 11, 12** **Code: W**

Prerequisite: Algebra II (may be taken concurrently)

This course provides an in-depth investigation of concepts and principles of physics. Topics to be investigated include motion, force, heat, light, electricity, magnetism, and nuclear reaction. Higher-level process skills such as analyzing, synthesizing, and evaluating data will be emphasized. Class activities will also include numerous laboratory investigations.

PHYSICS (A LEVEL)

043511 **1 credit** **Grades 11, 12**

Prerequisite: Algebra II (may be taken concurrently)

This course provides an investigation into the interrelationships and physical properties of matter and energy. Topics to be studied through experimentation, discussion, and reasoning are motion, magnetism, force, electricity, and energy. Appropriate demonstrations and investigations will also be included.

SCIENCE LAB ASSISTANT I

049940 **½ credit** **Grades 11, 12**

SCIENCE LAB ASSISTANT II

049960 **½ credit** **Grades 11, 12**

Prerequisite: Biology, Chemistry, or Physics and approval of department chairperson

The purpose of the laboratory assistant program is to provide an opportunity for individual research as well as provide trained personnel to assist in the science department. Students will earn one-half credit for each year of satisfactory performance up to a maximum of one credit.

SOCIAL STUDIES



Social studies is the part of the school program which teaches the skills, attitudes, and content knowledge that promote responsible citizenship. Social studies is an interdisciplinary field which includes history, geography, economics, political science, anthropology, psychology, sociology, and the humanities. Students are expected to use these disciplines to develop a variety of perspectives to enhance their ability to think critically about the events and issues that shape their community, their nation, and their world.

In addition to the required courses, students are able to select from a variety of social studies electives offered at each high school. Three levels of social studies courses are offered to meet student needs and achievement levels.

- **Advanced Placement (AP)** courses are provided for the student who has demonstrated the ability to move beyond enrichment level content and skills acquisition based on achievement and interest. Independent study and extensive outside reading and research are required.
- **Honors** courses are provided for the student who has demonstrated the ability to move to an enrichment level in content and skill acquisition based on achievement and interest. Independent study, outside reading, and research are required.
- **A Level** courses are provided for the student who reads or writes at or below grade level. Opportunities for the further development of skills and understanding of concepts will be provided. Supplementary research projects and reading are required.

ADVANCED PLACEMENT COMPARATIVE GOVERNMENT AND POLITICS

021030 **1 credit** **Grades 11, 12** **Code: W***

This course introduces students to the process and outcomes of politics in a variety of country settings. This course illustrates the diversity of political life, explains differences in policies and policy outcomes, and communicates to students the importance of global political and economic changes. The course prepares students for the national examination given by the College Board. Extensive independent reading and research are required, **and may include summer assignments.**

ADVANCED PLACEMENT EUROPEAN HISTORY

027120 **1 credit** **Grades 11, 12** **Code: W***

This course is designed to challenge students who have demonstrated the highest level of achievement and who wish to prepare for the Advanced Placement examination in European History. The scope of study is Europe from the Renaissance to the present using college-level texts and readings. Extensive outside reading and research are required, **and may include summer assignments.** This course is an elective and will not satisfy the requirement for World History.

ADVANCED PLACEMENT HUMAN GEOGRAPHY

022560 **1 credit** **Grades 10, 11, 12** **Code: W***

This course provides students with an introduction to the broad discipline of geography. The basis of this study is "What is where, why there, and why care?" Students will study the processes and patterns that shape how humans understand, use, and change the earth's surface. They will also study how the earth influences human interactions. The methods and tools of geographers are essential to the course. Extensive reading and research are required, **and may include summer assignments.**

ADVANCED PLACEMENT MACROECONOMICS

026020 **1 credit** **Grades 11, 12** **Codes: CTP, W***

This course gives students a thorough understanding of the principles of economics that apply to an economic system as a whole. It places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. The course prepares students for the national examination given by the College Board. Extensive independent reading and research are required, **and may include summer assignments.**

ADVANCED PLACEMENT MICROECONOMICS**026010** **1 credit** **Grades 11, 12** **Codes: CTP, W***

This course gives students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets, and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. Extensive independent reading and research are required, **and may include summer assignments.**

ADVANCED PLACEMENT PSYCHOLOGY**022020** **1 credit** **Grades 11, 12** **Code: W***

This course prepares students to take the Advanced Placement Examination. Content includes biological basis of behavior, personality theory, cognition, and abnormal and social psychology. Extensive independent reading and research are required, **and may include summer assignments.**

ADVANCED PLACEMENT UNITED STATES GOVERNMENT AND POLITICS**021020** **1 credit** **Grades 11, 12** **Code: W***

This course gives students an analytical perspective on government and politics in the United States. This course includes the study of both the general concepts used to interpret U.S. government and politics and the analysis of specific examples regarding various institutions, groups, beliefs, and ideas. The course prepares students for the national examination given by the College Board. Extensive independent reading and research are required, **and may include summer assignments.**

ADVANCED PLACEMENT UNITED STATES HISTORY**027020** **1 credit** **Grades 10, 11, 12** **Code: W***

This course challenges students who have demonstrated the highest level of achievement and interest in social studies and are willing to prepare to take the Advanced Placement Examination. The course of study surveys the history of the United States from its origin to the present. This course involves extensive reading of primary source documents and intensive preparation for writing document based essays, **and may include summer assignments.** This course fulfills the United States history requirement.

ADVANCED PLACEMENT WORLD HISTORY**027220** **1 credit** **Grades 11, 12** **Code: W***

This course challenges students who have demonstrated the highest level of achievement and who wish to prepare for the Advanced Placement examination. The course covers the period from early man to the present and follows several themes making cultural connections through time. Extensive outside reading and research are required, **and may include summer assignments.** This course fulfills the world history requirement.

AFRICAN AMERICAN HISTORY**02171T or U** **½ credit** **Grades 10, 11, 12**

This course provides students with an in-depth study of the history and culture of African Americans. The major units in African American History include Slavery and Slave Culture, Resistance to Enslavement, African American Contribution to the Civil War, Reconstruction and Disfranchisement, The Civil Rights Movement and the Black Power Movement, and Challenges of African Americans Today. Students in African American History engage in critical thinking and analytical discourse through the exploration of history, political science, economics, sociology, and culture of the United States, the Caribbean, and Latin America.

AFRICAN HISTORY**02161T or U** **½ credit** **Grades 10, 11, 12**

This course provides students with an in-depth study of the history and culture of Africa and African people. The major units in African History include Myths about Africa and Africans, Ancient and Medieval African Civilizations, African Empires and Kingdoms, The Slave Trade, Colonialism and Imperialism in Africa, Independence Movements, and Challenges of Contemporary Africa. Students in African History engage in critical thinking and analytical discourse through the exploration of anthropology, history, international relations, government, economics, philosophy, and culture of a world region.

APPLIED CIVICS**022611****1 credit****Grades 10, 11****Code: EOC**

This course is designed for students to develop an understanding of government at the local, state, and national levels. Students will focus on the major content and skills necessary to prepare students for the May administration of the Government HSA.

CULTURAL HISTORY AND SPORT**021814****1 credit****Grades 11, 12**

This course examines the connection between society and sport from Pre-Classical civilizations through the modern day. The connections between athletic competition, their impact on societal trends throughout history, and the extent to which sports reflect and influence the larger culture are analyzed and evaluated. The approach to studying these relationships focuses on high quality research, examination of primary and secondary sources, historical analysis and conclusions, and the development of literacy skills based upon writing prompts about sports-relevant issues.

DOMESTIC AND GLOBAL ISSUES**022634****1 credit****Grades 10, 11, 12**

This course is designed to develop geographic, economic, political, and cultural understandings that affect the relationships among nations in the world. Students will engage in research, discussions, role-playing, and simulations as they explore the issues currently facing the United States and nations around the world.

HUMAN GEOGRAPHY: THE STUDY OF PEOPLE AND PLACES**02255T or U****½ credit****Grades 10, 11, 12**

This course is designed for students to enhance their understanding of the relationships between people and their physical environment. The course will address geographic concepts to include location, relationships within environments, the movement of humans, and physical and cultural characteristics of regions. A variety of print and non-print resources will be used to enrich students' understanding of human interactions within physical environments.

INTRODUCTION TO PSYCHOLOGY**02352T****½ credit****Grades 10, 11, 12**

This course is designed to develop understanding of individual human behavior. Work in this course uses a variety of print and non-print materials, class discussions, demonstrations, projects, and community resources. Topics include personality theory, individual behavior, behavior in groups, motivation and emotion, memory and thought, stress and conflict, psychotherapy, psychological testing, and how psychologists conduct research.

INTRODUCTION TO SOCIOLOGY**02353U****½ credit****Grades 10, 11, 12**

This course is designed to develop understanding of how humans function in groups and societies. Work in this course will be based on print and non-print materials, class discussions, projects, demonstrations, and student evaluations of the environment. Topics include examination of self-concept, establishing and maintaining value systems, peer relationships, gender roles, and the role of family, education, government, religion, and economics in our society.

LOCAL, STATE, AND NATIONAL GOVERNMENT (HONORS)**022510****1 credit****Grade 9****Codes: EOC, W**

This course challenges students who have demonstrated the highest level of achievement and interest in social studies. Students will study the foundations and institutions of the United States system of government at the national, state, and local levels. Students will apply their knowledge of foundations to contemporary issues facing the local, state, and national governments. Students enrolled in this course will be provided an opportunity to complete their Student Service Learning requirement as part of the course of study.

LOCAL, STATE, AND NATIONAL GOVERNMENT (A LEVEL)**022511****1 credit****Grade 9****Code: EOC**

This course engages students in basic understanding of government and citizenship. Students will study the function, operation, and challenges that face government at the local, state, and national levels. Second semester students will examine contemporary issues facing local, state, and national government. Students will be provided an opportunity to complete Student Service Learning as part of the course of study.

LOCAL, STATE, AND NATIONAL GOVERNMENT (INDIVIDUALIZED)**02981V or W 1 credit Grade 9 Code: EOC**

This course is designed for students to develop an understanding of government at the local, state, and national levels. Students will study the issues that relate to their lives as citizens living in a democratic society. This course is available to students upon the recommendation of the Individualized Education Program (IEP) Committee and development of an IEP. Students will be provided an opportunity to receive credit for Student Service Learning as part of the course of study.

UNITED STATES HISTORY (HONORS)**021010 1 credit Grade 10 Code: W**

This course is designed to challenge motivated students who have demonstrated a high level of achievement and interest in social studies. Course content will focus on the geographic, economic, social, and political factors that continue to influence the development of the United States from the post-Civil War period to the present. Classroom requirements include extensive outside reading and research, as well as the completion of a historical investigation project.

UNITED STATES HISTORY (A LEVEL)**021011 1 credit Grade 10**

This course is designed for students who have demonstrated an aptitude and interest in social studies. The content of the course will focus on the geographic, economic, social, and political factors that influenced the development of the United States from the post-Civil War era to the present. Classroom requirements include extensive outside reading and research as well as the completion of a historical investigation project.

UNITED STATES HISTORY (INDIVIDUALIZED)**02983V or W 1 credit Grade 10**

This course is designed for students to develop an understanding of the events and personalities that have shaped life in the United States in the twentieth century. This course is available to students upon the recommendation of the Individualized Education Program (IEP) Committee and the development of an IEP.

WORLD HISTORY (HONORS)**021510 1 credit Grade 11 Code: W**

This course is designed to challenge motivated students who have demonstrated a high level of achievement and interest in social studies. Students will link their prior knowledge of world history as they continue to expand their understanding of the personalities and events that have shaped the modern world. Geographic, economic, political, and social factors will be explored from 1450 to the present. Classroom requirements include extensive outside reading and research, as well as the completion of a historical investigation project.

WORLD HISTORY (A LEVEL)**021511 1 credit Grade 11**

This course is designed for students who have demonstrated an interest and aptitude in social studies. Students will focus on events and personalities that have shaped the modern world since 1450. Concepts from geography, economics, and politics will be examined. Some outside reading and research are required. Classroom requirements include extensive outside reading and research, as well as the completion of an historical investigation project.

WORLD HISTORY (INDIVIDUALIZED)**02985V or W 1 credit Grade 11**

This course is designed for students to develop an understanding of the events and personalities that have shaped the modern world since 1450. This course is available to students upon the recommendation of the Individualized Education Program (IEP) Committee and the development of an IEP.

YOU AND THE LAW**02254T or U ½ credit Grades 10, 11, 12**

This course is designed to develop an understanding among teenagers of their rights and responsibilities as citizens under the local, state, and federal systems of law. Work in this course will be based on a variety of print and non-print materials, discussions, projects, and the use of community resources. Possible topics may include individual rights, civic responsibilities, laws and the legal system, criminal law, domestic law, and juvenile courts.



TECHNOLOGY EDUCATION

Technology Education is an experienced based curriculum in which students study technology, its evolution, utilization, and significance. Included in this study are opportunities for students to develop and use problem solving and ingenuity in the solution of real-world engineering problems. Laboratory activities will include the safe use of a wide variety of tools, machines, and materials. A special focus will be placed on the relationship between mathematics, science, and technology education concepts. Students will work independently and collaboratively as part of engineering teams throughout the courses. Specific course content is presented below.

ADVANCED DESIGN APPLICATIONS

130434 **1 credit** **Grades 10, 11, 12** **Code: ATE**

Prerequisite: Foundations of Technology or completion of Tech Ed credit

This course is a standards-based, technology, and engineering course designed for high school students. There are four instructional units: Manufacturing Technologies, Energy and Power Technologies, Construction Technologies, and Transportation Technologies. Students participating in the course learn concepts and principles utilizing math, science, and technology principles through hands-on applications and research.

ENGINEERING DESIGN ATE

130424 **1 credit** **Grades 11, 12** **Code: ATE**

Prerequisite: Advanced Design Applications (may be taken concurrently)

There are fundamental principles that impact human thinking and actions when engaged in the process of designing technological products. A combination of personal qualities such as creativity and resourcefulness and design constraints imposed by numerous factors are employed in this course to create new or refined technologies. The four units of study are Principles of Design, Engineering Resources, Engineering Design Process, and Project Management. May use drill and saw.

FOUNDATIONS OF TECHNOLOGY

130414 **1 credit** **Grades 9, 10, 11, 12** **Code: TE**

This course involves a broad study of technology while preparing students to understand and apply technological concepts and processes. Topics include current and future technological problems and opportunities associated with technology.

WORLD LANGUAGES

Charles County Public Schools offers the following World Languages: French, Spanish, German, Latin, and American Sign Language.

The World Language Program embraces the World-Readiness Standards for Learning Languages which identifies five goal areas in Communication, Cultures, Connections, Comparisons, and Communities. These goals stress the application of learning a language beyond the instructional setting and are essential for citizens in a global community and marketplace.

The World Language Program strongly recommends that students whose native language is not English study a world language other than their native language to fulfill the language graduation requirement. The World Language Program recommends that students complete at least two consecutive years of study in the same language to ensure a solid foundation of knowledge. Some colleges and universities require three years of high school study in the same World Language. Students should determine if the college or university of their choice has such a requirement.

ADVANCED PLACEMENT FRENCH LANGUAGE AND CULTURE

050554 1 credit Grades 11, 12 Code: W*

Prerequisite: French IV

This course is designed for students who wish to take the College Board Advanced Placement French Language examination. The course involves reading original works, writing extended assignments, and analyzing linguistics. Timed writings and analysis of texts will form major components of the course. Attaining intermediate to high-level proficiency in listening and speaking will be emphasized. Advanced work in the World Language and a solid foundation in levels I through IV are required.

ADVANCED PLACEMENT LATIN

052064 1 credit Grades 11, 12 Code: W*

Prerequisite: Latin III or IV

This course is designed for those Latin students interested in progressing to college-level reading, translating, analyzing, and interpreting Latin from original works. The AP Latin students are expected to translate accurately from Latin poetry and prose to English and to demonstrate an in-depth grasp of Latin grammatical structures and vocabulary. Stylistic analysis is an integral part of the course. Cultural, social, and political contexts also are examined. This course focuses on Vergil's *Aeneid* and Caesar's *Gallie Wars*.

ADVANCED PLACEMENT SPANISH LANGUAGE AND CULTURE

051554 1 credit Grades 11, 12 Code: W*

Prerequisite: Spanish IV

This course is designed for students who wish to take the College Board Advanced Placement Spanish Language and Culture examination. The course involves reading original works, writing extended assignments, and analyzing linguistics. Timed writings and analysis of texts will form major components of the course. Attaining intermediate to high-level proficiency in listening and speaking will be emphasized. A solid foundation in levels I through IV is required.

AMERICAN SIGN LANGUAGE

052111 1 credit Grades 11, 12

This course is designed to teach students basic conversational skills in American Sign Language. Students will also learn the history of Deaf Culture, as well as the structure and syntax of the language. The course will focus on three major areas, which include manual communication, Deaf Culture, and history/progress of Deaf Culture in America. This credit does satisfy the World Language graduation requirement and can be used with a single World Language credit to fulfill the World Language graduation requirement.

FRENCH I

050514 1 credit Grades 9, 10, 11, 12

This course stresses the communication skills of listening, speaking, reading, and writing in French. These skills are taught through the use of the language in everyday situations typical of the French culture. Vocabulary and grammar are taught by means of oral and written drills based on the curriculum. Students are expected to master the written forms of material covered orally. Much of the teaching is done in French. Memorization is required and stressed through practice in class

and at home. Various media resources are used to increase vocabulary and cultural awareness. Students are expected to master oral and written material in French on a daily basis.

FRENCH II

050524 **1 credit** **Grades 9, 10, 11, 12**

Prerequisite: French I

This course builds on listening, speaking, reading, and writing skills learned in French I. Activities and conversations are used in class to enable students to relate to French culture through their own lives. The majority of classroom instruction is done in French. Various media resources remain an integral part of the program in order to present an authentic image of the French-speaking world today.

FRENCH III (HONORS)

050535 **1 credit** **Grades 10, 11, 12** **Code: W**

Prerequisite: French II

This course provides oral practice of more advanced grammatical and idiomatic forms of French. Increased emphasis is placed upon listening, speaking, reading, and writing skills. Various media resources remain an integral part of the program in order to present an authentic image of the French-speaking world today. Classroom instruction is conducted in French.

FRENCH IV (HONORS)

050544 **1 credit** **Grades 11, 12** **Code: W**

Prerequisite: French III

This course is an extension of the third-year activities. Students are expected to speak French almost exclusively. Students read French literature and articles from the French-speaking world, which include classic and contemporary works. Timed writings and analysis of texts will form major components of the course. Attaining intermediate to high-level proficiency in listening and speaking is emphasized. Classroom instruction is conducted in French.

GERMAN I

051014 **1 credit** **Grades 9, 10, 11, 12**

This course stresses the communication skills of listening, speaking, reading, and writing in German. These skills are taught through the use of the language in everyday situations typical of the German culture. Vocabulary and grammar are taught by means of oral and written drills based on curriculum. Memorization is required and stressed through practice in class and at home. Various media resources are used to increase vocabulary and cultural awareness. Students are expected to master oral and written material in German on a daily basis.

GERMAN II

051024 **1 credit** **Grades 10, 11, 12**

Prerequisite: German I

This course builds on listening, speaking, reading, and writing skills learned in German I. Activities and conversations are used in class to enable students to relate to German culture through their own lives. The majority of classroom instruction is done in German. Various media remain an integral part of the program in order to present an authentic image of the German-speaking world today. Classroom instruction is conducted in German.

GERMAN III (HONORS)

051035 **1 credit** **Grades 11, 12** **Code: W**

Prerequisite: German II

This course provides oral practice of more advanced grammatical and idiomatic forms of German. Increased emphasis is placed upon listening, speaking, reading, and writing skills. Various media remain an integral part of the program in order to present an authentic image of the German-speaking world today. Classroom instruction is conducted in German.

GERMAN IV (HONORS)

051044 **1 credit** **Grade 12** **Code: W**

Prerequisite: German III

This course is an extension of the third-year activities. Students are expected to speak German almost exclusively. Students read German literature and articles from the German-speaking world, which include classic and contemporary works. Timed writings and analysis of texts will form major components of the course. Attaining intermediate to high-level proficiency in listening and speaking is emphasized. Classroom instruction is conducted in German.

052014

1 credit

Grades 9, 10, 11, 12

LATIN II

052024

1 credit

Grades 10, 11, 12

This course builds upon skills acquired in Latin I. Concepts in grammar are complex. Readings from Latin literature, covering a wide range of topics and literary forms, are studied. Students continue study of the Roman culture. Acquisition of vocabulary and comprehension of basic reading materials are goals of the course. The application of verbal concepts to English language development is emphasized.

052035

1 credit

Grades 11, 12

Code: W

This course emphasizes recognition of the stylistic elements and linguistic functions in Latin literature. Students study a range of Latin prose as examples of the Latin linguistic system and its influence upon Western culture and literacy style. Students will be expected to expand their capabilities in regard to listening, speaking, and reading aloud, reading and analyzing, and writing in Latin. Grammatical constructs will be taught as the functions of language. Literary works, both prose and poetry, will be subjects of class analysis. Aspects of Latin culture as they pertain to Western civilization and letters will be discussed. Upon completion of this course, students should be able to read and understand Latin literature, pronounce the majority of vocabulary words properly, comprehend Latin cultural concepts, and interpret the grammatical constructs accurately.

052044

1 credit

Grade 12

Code: W

Latin IV is concerned with reading and appreciating Latin literature, particularly poetry. In addition to utilizing language skills acquired in previous course work, the student will concentrate on figures of speech, the definition of poetry, poetic structures, and the cultural setting of the epic. Grammar is taught as a linguistic function to be used for accurate translation of ideas and concise expression. Opportunity for research in many phases of classical civilization is provided.

051514

1 credit

Grades 9, 10, 11, 12

This course stresses the communication skills of listening, speaking, reading, and writing in Spanish. These skills are taught through the use of the language in everyday situations typical of the Spanish culture. Vocabulary and grammar are taught by means of oral and written drills based on the curriculum. Memorization is required and stressed through practice in class and at home. Various media resources are used to increase vocabulary and cultural awareness. Students are expected to master oral and written material in Spanish on a daily basis.

051524

1 credit

Grades 9, 10, 11, 12

This course builds on listening, speaking, reading, and writing skills as learned in Spanish I. Activities and conversations are used in class to enable students to relate to Spanish culture through their own lives. The majority of classroom instruction is versed in Spanish. Various media remain an integral part of the program in order to present an authentic image of the Spanish-speaking world today.

051535

1 credit

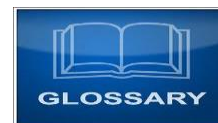
Grades 10, 11, 12

Code: W

This course provides oral practice of more advanced grammatical and idiomatic forms of Spanish. Increased emphasis is placed upon listening, speaking, reading, and writing skills. Various media remain an integral part of the program in order to present an authentic image of the Spanish-speaking world today. Classroom instruction is conducted in Spanish.

SPANISH IV (HONORS)**051544****1 credit****Grades 11, 12****Code: W*****Prerequisite: Spanish III***

This course is an extension of the third-year activities. Students are expected to speak Spanish almost exclusively. Students read Spanish literature and articles from the Spanish-speaking world, which include classic and contemporary works. Timed writings and analysis of texts will form major components of the course. Attaining intermediate to high-level proficiency in listening and speaking is emphasized. Classroom instruction is conducted in Spanish.



GLOSSARY

APPROVAL OF INSTRUCTOR: This requirement is indicated for particular courses in which prior skills or experiences are needed.

ARTICULATED COURSES: These courses, taken in high school, may be eligible for college credit at a participating institution for students who enroll there after graduation.

CAPSTONE EXPERIENCE: This culminating course in a career and technical completer program gives students an opportunity to demonstrate the knowledge and skills developed through the integration of all coursework.

CAREER CLUSTER: MSDE identified ten (10) Career Clusters that represent core business functions across industry areas in Maryland business. Each Maryland Career Cluster encompasses a range of career pathways based on economic activities, similar interests, common skills, and training required by those in the field.

COMPLETER PROGRAM (CTP): This sequence of courses or career pathway, taken together, prepares students for entrance to a four-year college or university, to gain in-depth knowledge of a particular career field, or for direct entry into the workforce.

CONCENTRATOR COURSE (CTC): The concentrator is the designated course in the sequence of courses in a completer program that usually occurs after the student has completed 50 percent of the Career Technical Education (CTE) Program of Study. This course represents the student's intent to be a CTE program completer.

COURSE SELECTION SHEET (CSS): The CSS is a list of all classes available to students in a particular high school. It is updated annually and used as a guide in selecting courses for the following school year.

DUAL ENROLLMENT: Qualified juniors and seniors have the opportunity to earn college credit at a 50% tuition savings at the College of Southern Maryland (CSM) while attending high school.

EL/ESOL (English Learners/English for Speakers of Other Languages): These terms refer to students whose native language is other than English and for whom special support services may be available.

FULL-TIME COLLEGE WAIVER: This option allows high school students who have met all other graduation requirements to attend college full time during their senior year of high school and receive English IV credit for two semesters of college English.

HIGH SCHOOL ASSESSMENT (HSA): The Maryland High School Assessment is a test that measures school and individual student progress toward Maryland's High School Core Learning Goals in Government.

INDIVIDUALIZED EDUCATION PROGRAM (IEP): The IEP is the educational program specifically designed for a student with special education needs.

MARYLAND COMPREHENSIVE ASSESSMENT PROGRAM (MCAP): Is being developed to replace the PARCC exams that have been used for the past four years to measure progress in areas such as language arts, math, science, and social studies.

MARYLAND INTEGRATED SCIENCE ASSESSMENT (MISA): The Maryland Integrated Science Assessment is an assessment that provides educators, parents, and the public with student progress towards science literacy. This test is given in grades 5, 8, and 10.

MARYLAND STATE DEPARTMENT OF EDUCATION (MSDE): The governing agency in the state of Maryland that oversees the operation of public schools serving children in Pre-K through grade 12.

NATIONAL COLLEGIATE ATHLETIC ASSOCIATION (NCAA): The governing body that sets the admissions guidelines and eligibility requirements for students planning to participate in collegiate sports.

NON-TRIVIAL ALGEBRA (as defined by the University System of Maryland): The level of mathematical concepts discussed and the level of problems that are used in the course would be at least as sophisticated as those that relate to problems appearing in the Achieve ADP Algebra II test. An important feature of any such course is that it utilizes algebra in a substantive way so that the student does not lose the algebraic and numerical skills achieved in earlier courses. In Charles County, the following math courses satisfy the non-trivial algebra requirement: Advanced Algebra with Trigonometry, Pre-Calculus, AP Statistics, and AP Calculus.

PARTNERSHIP FOR ASSESSMENT OF READINESS FOR COLLEGE AND CAREER (PARCC): The PARCC tests are high quality, computer-based K-12 assessments in Mathematics and English Language Arts/Literacy.

PILOT COURSES: These courses are currently offered on a trial basis and are not available at all high schools.

PREREQUISITE: This term refers to condition(s) that a student must meet in order to enroll in a particular course or program of study.

WEIGHTED COURSES: This term refers to the additional quality points used in the numerical calculation of a student's grade point average for courses that are of exceptional rigor and/or require significant work beyond the school day.

High School Graduation Requirements – 23 Credits

Graduation Pathways Choose ONE of the following options	
2 credits of World Language and electives	<input type="checkbox"/> <input type="checkbox"/>
OR	
2 credits of Advanced Technology and electives	<input type="checkbox"/> <input type="checkbox"/>
OR	
Career and Technical Education Completer Program and electives	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Electives ALL students must earn a minimum of <u>23 credits</u> to earn a diploma. The number of <u>electives</u> needed will vary based upon the year of entry into high school and the option chosen above.	

2/9/2022 C&I/Miesowicz_Jones/sml

These codes appear with course descriptions where appropriate: ATE = Advanced Technology Credit; CC = may be eligible for college credit; CTP = Maryland State Dept. of Education Approved Career Technical Program; CTC = CTP Concentrator Course; EOC = End-of-Course Assessment; FA = Fine Arts; TE = Technology Education; W = Weighted (HONORS): W* = Weighted (AP)



CHARLES COUNTY HIGH SCHOOLS AND CENTERS

Henry E. Lackey High School – 210675*

3000 Chicamuxen Road
Indian Head, Maryland 20640
301-743-5431 & 301-753-1753
Counseling Department 301-934-7472
Counseling FAX 301-743-6850
School FAX 301-743-9076
<http://www.ccboe.com/schools/lackey>

La Plata High School – 210685*

6035 Radio Station Road
La Plata, Maryland 20646
301-934-1100 & 301-753-1754
Counseling Department 301-934-7448
Counseling FAX 301-392-5506
School FAX 301-934-5657
<http://www.ccboe.com/schools/laplata>

Maurice J. McDonough High School – 210823*

7165 Marshall Corner Road
Pomfret, Maryland 20675
301-934-2944 & 301-753-1755
Counseling Department 301-392-5510
Counseling FAX 301-934-8005
School FAX 301-753-8408
<http://www.ccboe.com/schools/mcdonough>

North Point High School for Science, Technology, and Industry – 211061*

2500 Davis Road
Waldorf, Maryland 20603
301-885-2012 & 301-753-1759
Counseling Department 301-934-7470
Counseling FAX 301-392-5505
School FAX 301-885-2347
<http://www.ccboe.com/schools/northpoint>

St. Charles High School – 211067*

5305 Piney Church Road
Waldorf, Maryland 20602
301-396-4201 & 301-753-2090
Counseling Department 301-392-5539
Counseling FAX 301-392-5515
School FAX 301-396-4135
<http://www.ccboe.com/schools/stcharles>

Thomas Stone High School – 211054*

3785 Leonardtown Road
Waldorf, Maryland 20601
301-645-2601 & 301-753-1756
Counseling Department 301-392-5508
Counseling FAX 301-392-5503
School FAX 301-932-4278
<http://www.ccboe.com/schools/stone>

Westlake High School – 211059*

3300 Middletown Road
Waldorf, Maryland 20603
301-645-8857 & 301-753-1758
Counseling Department 301-392-5509
Counseling FAX 301-392-5502
School FAX 301-932-8583
<http://www.ccboe.com/schools/westlake>

Robert D. Stethem Educational Center – 851629*

7775 Marshall Corner Road
Pomfret, Maryland 20675
301-932-1003 & 301-753-1757
FAX 301-934-0165
Virtual Academy 301-932-6612
<http://www.ccboe.com/schools/stethem>

- Alternative Programs
- Virtual Academy
- Evening High School
- Summer School

*School code or CEEB Code – used for SAT, ACT, AP, NCAA, and most college applications