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Mission

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 Dr. Patricia Vaira, Title IX/ADA/Section 504 Coordinator (students) or Pamela K. Murphy, 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 1-800-775-2258 two weeks prior to the event.
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S/27/2015 C&I/Withers_Jones/wis  
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 Technology Program; CTP = CTP Concentrator Course; EOC = End-of-Course Assessment; FA = Fine Arts; TE = Technology Education; W = Weighted
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## CHARLES COUNTY REQUIREMENTS FOR A MARYLAND HIGH SCHOOL DIPLOMA

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

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Students entering high school before Fall 2011</th>
<th>Students entering high school Fall 2011 to Fall 2012</th>
<th>Students entering high school Fall 2013 and beyond</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 credits</td>
<td>4 credits</td>
<td>4 credits</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3 credits</td>
<td>3 credits</td>
<td>3 credits</td>
</tr>
<tr>
<td>Science</td>
<td>3 credits</td>
<td>3 credits</td>
<td>3 credits</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3 credits</td>
<td>3 credits</td>
<td>3 credits</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>1 credit</td>
<td>1 credit</td>
<td>1 credit</td>
</tr>
<tr>
<td>Physical Education</td>
<td>½ credit Fitness for Life</td>
<td>½ credit Fitness for Life</td>
<td>½ credit Fitness for Life</td>
</tr>
<tr>
<td>Health</td>
<td>½ credit</td>
<td>½ credit</td>
<td>½ credit</td>
</tr>
<tr>
<td>Technology Education</td>
<td>1 credit</td>
<td>1 credit</td>
<td>1 credit</td>
</tr>
<tr>
<td>Financial Literacy</td>
<td>1 credit</td>
<td>1 credit</td>
<td>1 credit</td>
</tr>
<tr>
<td>Other</td>
<td>2 credits of World Language and at least 5 credits of academic/career electives OR</td>
<td>2 credits of World Language and at least 4 credits of academic/career electives OR</td>
<td>2 credits of World Language and at least 4 credits of academic/career electives OR</td>
</tr>
<tr>
<td></td>
<td>2 credits of Advanced Technology coursework and at least 5 credits of academic/career electives OR</td>
<td>2 credits of Advanced Technology coursework and at least 4 credits of academic/career electives OR</td>
<td>2 credits of Advanced Technology coursework and at least 4 credits of academic/career electives OR</td>
</tr>
<tr>
<td></td>
<td>7 credits through the completion of a state-approved career and technology education program and academic/career electives</td>
<td>6 credits through the completion of a state-approved career and technology education program and academic/career electives</td>
<td>6 credits through the completion of a state-approved career and technology education program and academic/career electives</td>
</tr>
</tbody>
</table>

| High School Assessment (HSA) | Students must take the Maryland High School Assessments for English II, Algebra/Data Analysis, and Biology. Students must achieve one of the following: (1) a passing score on each test, (2) a combined overall score of at least 1208, (3) a specific score on an MSDE-approved comparable assessment, (4) the Bridge Plan for Academic Validation, or (5) a combined overall score of at least 1602 for students who took and passed the Government HSA. | Students must take the Maryland High School Assessments for English II, Algebra/Data Analysis, and Biology. Students must achieve one of the following: (1) a passing score on each test, (2) a combined overall score of at least 1208, (3) a specific score on an MSDE-approved comparable assessment, (4) the Bridge Plan for Academic Validation, or (5) a combined overall score of at least 1602 for students who took and passed the Government HSA. | Students entering Fall 2013 and beyond must take the Maryland High School Assessments for Biology and Government. Please click on the link below for additional Maryland New Statewide Tests – the Partnership for Assessments of Readiness for College and Careers (PARCC) assessments. |

http://www.msde.state.md.us/w/Top5HSTesting0214.pdf

5/27/2015  C&I/Withers_Jones/wls
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 Technology Program; CTC = CTP Concentrator Course; EOC = End-of-Course Assessment; FA = Fine Arts; TE = Technology Education; W = Weighted
STUDENT SERVICE LEARNING
Service learning is an 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.

HIGH SCHOOL REQUIREMENTS MET IN MIDDLE SCHOOL
Algebra I, Geometry, Algebra II, and World Language courses completed in middle school can be used to meet high school graduation requirements and awarded high school credit. High school credits earned in middle school are not calculated in high school GPA.

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.

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.

REQUIREMENTS FOR CHARLES COUNTY ACADEMIC AWARDS OF DISTINCTION

CLASS RANKING
Seniors attending Charles County Public Schools 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.

To determine rank, credits transferred in from outside the Charles County Public Schools (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 entering high school in 2013 and beyond 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 (Honors, 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
(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.

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, US 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 if they have been enrolled in the school issuing the letter for a minimum of three consecutive semesters and have a weighted GPA of 3.5 or higher with no D or F grades for any quarter or semester. See individual school handbooks for more details.
RELATED INFORMATION

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

WEIGHTED CUMULATIVE GRADE POINT AVERAGE (GPA)
Weighted classes are identified in the course description with the Code "W".

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.

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

Beginning in 2012-13, all Project Lead the Way Specialization and 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.

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 School's 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. You may also search by city/state and high school name.


For additional information, contact the NCAA online at www.ncaa.org or by telephone at (877) 262-1492.
ADVANCED PLACEMENT PROGRAM/COURSES
The College Board’s Advanced Placement Program (AP) 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. Further information may be obtained from the high school counseling office. Charles County Public Schools offers the following Advanced Placement Courses:

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

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

SUMMER SCHOOL
Students who fail core subject/s 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. HSA related courses have additional requirements. Specific information about class offerings and summer school location, along with additional requirements, will be available from the high school counseling department prior to the end of the school year.
### STEM
Science, Technology, Engineering and Mathematics Opportunities

STEM courses and activities motivate students to excel in Science, Technology, Engineering and Mathematics while preparing 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.

<table>
<thead>
<tr>
<th>Curricular Opportunities</th>
<th>Extracurricular Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Additional information available in this booklet</strong></td>
<td><strong>Additional information available at individual school</strong></td>
</tr>
<tr>
<td>Computer Science/Computer Technology</td>
<td>Charles County FIRST Robotics Team</td>
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<tr>
<td>- Computer Science Principles</td>
<td>Computer Bowl</td>
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<tr>
<td>- Computer Internship</td>
<td>Cyber Security Team</td>
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<tr>
<td>- Designing Technology Solutions</td>
<td>Destination Imagination Teams</td>
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<tr>
<td>- Programming – JAVA (Honors)</td>
<td>Environmental Engineering Club</td>
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<tr>
<td>- AP Computer Science A</td>
<td>Envirothon Team</td>
</tr>
<tr>
<td>- Web Design and Development</td>
<td>Maryland Business Roundtable Innovative STEM School program</td>
</tr>
<tr>
<td>Engineering and Technology Education</td>
<td>Maryland Math League</td>
</tr>
<tr>
<td>- Foundation of Technology</td>
<td>MESA (Mathematics, Engineering and Science Achievement)</td>
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<tr>
<td>- Computer Assisted Drafting and Design (CADD)</td>
<td>Skills USA team</td>
</tr>
<tr>
<td>- Advanced Design Applications</td>
<td>Students Modeling a Research Topic (SMART Team)</td>
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<tr>
<td>- Engineering Design ATE</td>
<td>Technology Club</td>
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<tr>
<td>Mathematics Courses</td>
<td>VEX Robotics</td>
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<tr>
<td>Project Lead The Way (PLTW)</td>
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<tr>
<td>Biomedical Sciences</td>
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<tr>
<td>- Principles of the Biomedical Sciences</td>
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<td>- Human Body Systems</td>
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<td>- Medical Interventions</td>
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<tr>
<td>- Biomedical Innovations</td>
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<tr>
<td><strong>Project Lead The Way (PLTW)</strong></td>
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<tr>
<td><strong>Pathway To Engineering</strong></td>
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<tr>
<td>- Introduction to Engineering Design</td>
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<tr>
<td>- Principles of Engineering</td>
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<td>- Digital Electronics</td>
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<td>- Computer Integrated Manufacturing</td>
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<td>- Aerospace Engineering</td>
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<td>- Biotechnical Engineering</td>
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<tr>
<td>- Civil Engineering &amp; Architecture</td>
<td></td>
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<tr>
<td>- Engineering Design and Development</td>
<td></td>
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<tr>
<td>Science Courses</td>
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</tbody>
</table>

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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.

- 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. [http://www.ccboe.com/community/students/Dual%20Enrollment%20Application%20Fall%202014.pdf]
- Full-time College Waiver: Qualified students who have met all other graduation requirements to attend college full-time during the senior year, completing the high school English IV requirement by taking and passing two semesters of approved college-level English courses. [http://www.ccboe.com/community/students/FullTimeCollegeWaiver2014.pdf]
- Early Graduation: Qualified students have the opportunity to graduate early by completing all high school graduation requirements within three years.

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.

NOVEL ACADEMIC PROGRAM (NEW OPTIONS/VISIONS FOR EFFECTIVE LEARNING)
NOVEL is an educational option for high school students to earn academic credit. The program is offered through Charles County Public Schools and is an extension of the services offered through the regular high school program. Credit is awarded upon satisfactory completion of subject requirements. A transcript of grades is sent to the student’s home school. The program is housed at the Robert D. Stethem Educational Center. NOVEL accepts students who are 16 years of age or older who are referred by the school principal for the following reasons:

- Students who need to make up a course while attending full-time at the home school
- Seniors who have received a failing grade in the first semester of a course
- Students who request early graduation and complete the required English course at NOVEL
- Students who are transferred to NOVEL for part or all of their original schedule
- Students who are assigned through the Superintendent’s hearing process
- Students who require four or more courses through NOVEL must complete the first four courses before starting the fifth course.

NOTE: Students are not eligible to take State Assessments related courses at NOVEL unless they have already met the requirement for the course in which they are enrolling.
2015-2016 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
- Beginning Band
- 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
- Drawing/Design
- Fashion Design
- Guitar I, II, III, IV
- Independent Study: Art
- Independent Study: Multi-Media
- Independent Study: Music
- Independent Study: Theatre
- Jazz Ensemble I, II, III, IV
- Men’s Chorus I, II, III, IV
- Mixed Chorus I, II
- Multi-Media Production I, II, III
- Music Theory
- Orchestra I, II, III, IV
- Painting I, II, III
- Photography I, II, III
- Printing Arts
- Sculpture
- Show Choir I, II, III, IV
- Stage Production I, II, III
- Survey of Music
- Symphonic Band I, II, III, IV
- Theatre Arts
- Voice Class
- Women’s Chorus I, II, III, IV

TECHNOLOGY EDUCATION (TE)
- Designing Technology Solutions (DTS)
- Foundations of Technology (FoT)
- Introduction to Engineering Design (IED)

ADVANCED TECHNOLOGY EDUCATION (ATE)
- Advanced Design Applications
- Engineering Design ATE
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 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.
- Advanced Computer Applications, Integration, and Development
- Project Lead The Way (PLTW) Biomedical Science
- College Accounting
- Pre-Calculus
- Computer Internship
- Fire & Rescue Cadet
- Teacher Academy of Maryland
- Project Lead The Way (PLTW) Engineering (multiple postsecondary institutions)

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 ENROLLMENT/WITHDRAWAL PROCEDURES

PROCEDURES FOR SCHEDULE CHANGES
A written request for schedule changes will be accepted in the counseling department for the first ten days of school. Signatures of the student and parent/guardian are required. Requests will be considered, prioritized, and completed by the grade level counselor as quickly as possible.

SCHEDULE CHANGE REQUEST GUIDELINES
A request for a schedule change will be considered if at least one of the following circumstances applies:
A. scheduling error
B. course needed for graduation
C. inappropriate academic placement
D. recommendation by administration
E. request for withdrawal from a course (note procedures below)

If a student is permitted to withdraw 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 permitted 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
All appeals must be made in writing to the appropriate school level administrator. Signatures of the student and parent/guardian are required.
COURSE OFFERINGS

ACADEMIC SUPPORT

ALGEBRA APPLICATIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>03153T or U</td>
<td>½ credit</td>
<td>9, 10, 11</td>
</tr>
<tr>
<td>031534</td>
<td>1 credit</td>
<td>9, 10, 11</td>
</tr>
</tbody>
</table>

This course provides students additional time and support to develop their knowledge and skills of algebra. The course may be concurrently paired with an existing algebra course or offered at a different time in the student’s schedule. The course provides elective credit in mathematics but does not satisfy the graduation requirement for Algebra I.

AVID I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>142014</td>
<td>1 credit</td>
<td>9, 10</td>
</tr>
</tbody>
</table>

AVID II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>142024</td>
<td>1 credit</td>
<td>10, 11</td>
</tr>
</tbody>
</table>

AVID III

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>142034</td>
<td>1 credit</td>
<td>11, 12</td>
</tr>
</tbody>
</table>

AVID IV

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>142044</td>
<td>1 credit</td>
<td>12</td>
</tr>
</tbody>
</table>

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 identified students succeed in a rigorous curriculum, 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.

BRIDGE PLAN FOR ACADEMIC VALIDATION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>14444T or U</td>
<td>½ credit</td>
<td>11, 12</td>
</tr>
<tr>
<td>144444</td>
<td>1 credit</td>
<td>11, 12</td>
</tr>
</tbody>
</table>

This course provides the opportunity to satisfy the High School Assessment (HSA) requirements through completion of a series of challenging projects linked to the Core Learning Goals in Algebra/Data Analysis, English II, LSN Government, and/or biology. Students who meet the eligibility requirements are identified by staff and are required to continue to take the HSA assessments until graduation requirements are met. Eligibility requirements include passing the related HSA course, completing an assistance program, failing the assessment twice, having an acceptable attendance record, and making satisfactory progress toward graduation.

COLLEGE PREP ALGEBRA

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>03801T or U</td>
<td>½ credit</td>
<td>12</td>
</tr>
</tbody>
</table>

Prerequisite: 3 credits in mathematics; may be taken concurrently with a mathematics course

This course is offered through a partnership with the College of Southern Maryland in order to assist students with their transition to college level mathematics. The course is equivalent to the College of Southern Maryland’s MTH 1000.

COLLEGE PREP ENGLISH

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>03800T or U</td>
<td>½ credit</td>
<td>12</td>
</tr>
</tbody>
</table>

Prerequisite: 3 credits in English, taken concurrently with English IV

This course is offered through a partnership with the College of Southern Maryland in order to assist students with their transition into college level English. This course is designed to strengthen the skills of college bound students who possess at or above grade level reading and writing skills.
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 Technology Program; CTC = CTP Concentrator Course; EOC = End-of-Course Assessment; FA = Fine Arts; TE = Technology Education; W = Weighted

**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 Performance Series and other test scores validated by fluency checks and Spelling Inventories.

**PREP PLUS I**
140014 1 credit Grade 9
*Prerequisite: Recommendation of the IEP (Individualized Education Program) Committee*

This course provides ninth grade students with the content and skills to be successful in Algebra I, Earth and Space Science, English I, and Local, State, and National Government. Students selected for this course are provided additional time and support to be successful in core academic courses. The emphasis of the course will be on the acquisition of academic skills and preparation for assessments that foster self-reliant learning.

**PREP PLUS II**
140024 1 credit Grade 10
*Prerequisite: Recommendation of the IEP (Individualized Education Program) Committee*

This course provides tenth grade students with the content and skills to be successful in Algebra I or Geometry, Biology, English II, and United States History. Students selected for this course are provided additional time and support. The course will emphasize content and organizational and study skills that enable students to move toward independence with their learning.

**SAT/ACT PREPARATION**
18000T or U ½ credit Grades 11, 12
180004 1 credit Grades 11, 12
*Prerequisite: Algebra I and Geometry*

This course is designed to include intensive preparation for the writing, critical reading, and mathematical reasoning components of the SAT/ACT. Various techniques and strategies which emphasize vocabulary, critical and analytical reading of complex content, and persuasive writing are taught and practiced in test-taking situations. Practice in solving problems involving arithmetic, algebra, and geometry is included in this course.
These elective courses are designed to provide assistance and support to students enrolled in the STARS program. The STARS elective courses help identified students maintain success in a rigorous course of study and prepare for college admissions.

**STRATEGIES FOR PERSONAL MANAGEMENT**

02984V, W, or X 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).

**STUDENT SERVICE LEARNING**

17602T or U ½ credit Grades 10, 11, 12

This course is open to all students who wish to participate in structured learning opportunities in the community. Individually or as a group, students will identify a community need or concern, research that issue, prepare a plan of action, carry out the plan, and reflect on the impact of that action. Students pursue an independent course that follows independent study guidelines under the supervision of a faculty advisor.

**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 this course as determined by the Performance Series and other test scores validated by fluency checks and Spelling Inventories.
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

ACCOUNTING I
173814  1 credit  Grades 10, 11, 12  Code: CTP
The course description can be found in the Career Technology Education Completer Programs section under Business Management

ADVANCED COMPUTER APPLICATIONS, INTEGRATION, AND DEVELOPMENT
C17332  1 credit  Grades 10, 11, 12  Codes: CC, CTP or CTC
Prerequisite: Computer Applications and Concepts
The course description can be found in the Career Technology Education Completer Programs section under Administrative Services

BUSINESS MATHEMATICS
173014  1 credit  Grades 10, 11, 12
This course helps students develop computational skills needed to solve business problems. Computational skills are essential for students as they become citizens, consumers, wage earners, employees, employers, investors, inventors, and entrepreneurs. Making decisions in each of these various roles requires quantitative calculations. The accuracy of these calculations and related decisions depends on adept utilization of computational processes.

BUSINESS LAW
178002  1 credit  Grades 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.

COLLEGE ACCOUNTING
C17383  1 credit  Grades 11, 12  Codes: CC, CTP
Prerequisite: Accounting I
The course description can be found in the Career Technology Education Completer Programs section under Business Management

COMPUTER APPLICATIONS AND CONCEPTS
173310  1 credit  Grades 9, 10, 11, 12  Codes: CTC or CTP
The course description can be found in the Career Technology Education Completer Programs section under Administrative Services

ENTREPRENEURSHIP AND E-COMMERCE
178005  1 credit  Grades 11, 12  Code: CTC
Prerequisite: Principles of Business and Management OR concurrent enrollment in Principles of Business and Management
The course description can be found in the Career Technology Education Completer Programs section under Business Management.
INVESTMENT AND FINANCIAL MANAGEMENT
178001 1 credit Grades 11, 12 Code: CTP
This course provides an in-depth study of financial literacy concepts essential to business. Students will engage in topics such as loans, savings and investments, governing financial agencies, and stocks and bonds. In addition, students gain hands on investment experience by participating in a stock market simulation.

JOB TRAINING
173614 1 credit Grades 10, 11, 12
This course helps students locate information about duties, salaries, educational and job market requirements, and the job market relating to their career choices. Techniques for job searching, applying, and interviewing will be stressed. Emphasis will be placed on resume writing, job seeking skills, vocabulary building, and grammar usage for business purposes. Computer applications will be used to create resumes.

KEYBOARDING ESSENTIALS AND DOCUMENT FORMATTING
17505T or U ½ credit Grades 9, 10, 11, 12
This course provides students with basic touch-typing keyboarding skills to help increase their efficient use of a computer. Students will also learn common word processing skills to format and edit a variety of documents frequently used in school or in the workplace.

MARKETING PRACTICES AND PRINCIPLES
178003 1 credit Grades 10, 11, 12
This course introduces the seven basic marketing functions and possible career options through case studies and simulations. This includes activities related to product design and development, distribution, sales, research, financing, pricing, and promotions through advertising and other methods. Students will also learn to improve their own personal marketing skills as they pertain to being knowledgeable consumers, serving in leadership roles, applying to colleges, and seeking employment opportunities.

PRINCIPLES OF BUSINESS AND MANAGEMENT
175084 1 credit Grades 10, 11, 12 Code: CTP
The course description can be found in the Career Technology Education Completer Programs section under Administrative Services, Business Management

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 & TECHNOLOGY 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 Technology 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.

<table>
<thead>
<tr>
<th>Career Cluster</th>
<th>Completer Program</th>
<th>SCHOOL Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts, Media, and Communication</td>
<td>Interactive Media Production</td>
<td>RSEC</td>
</tr>
<tr>
<td>Principles of Arts, Media, and Communication</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Interactive Multimedia Production</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Advanced Interactive Multimedia Production</td>
<td>2.0</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>4.0</strong></td>
<td></td>
</tr>
<tr>
<td>Business Management and Finance</td>
<td>Administrative Services</td>
<td>ALL</td>
</tr>
<tr>
<td>Computer Applications &amp; Concepts</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Advanced Computer Applications &amp; Concepts</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Principles of Business &amp; Management</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Investment &amp; Financial Management</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>4.0</strong></td>
<td></td>
</tr>
<tr>
<td>Business Management</td>
<td>LHS, LPHS, NPHS, TSHS, WLS</td>
<td></td>
</tr>
<tr>
<td>Principles of Business &amp; Management</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Investment &amp; Financial Management</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Entrepreneurship &amp; E-Commerce</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Accounting with Computer Applications or College Accounting</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>4.0</strong></td>
<td></td>
</tr>
</tbody>
</table>

*Must be one of the following courses: Accounting w/ Computers, College Accounting, or Principles of Business & Management

<table>
<thead>
<tr>
<th>Career Cluster</th>
<th>Completer Program</th>
<th>SCHOOL Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Resource Services</td>
<td>Fire Science/Firefighting</td>
<td>ALL</td>
</tr>
<tr>
<td>Fire &amp; Rescue Cadet</td>
<td>4.0</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>4.0</strong></td>
<td></td>
</tr>
<tr>
<td>Teacher Academy of Maryland (TAM)</td>
<td>Human Development &amp; Family Science</td>
<td>ALL</td>
</tr>
<tr>
<td>Teaching as a Professor</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Foundations of Curriculum &amp; Instruction</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Education Academy Internship</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>4.0</strong></td>
<td></td>
</tr>
</tbody>
</table>

Manufacturing, Engineering & Technology

<table>
<thead>
<tr>
<th>Career Cluster</th>
<th>Completer Program</th>
<th>SCHOOL Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transportation Technologies</td>
<td>Automotive Technician</td>
<td>RSEC</td>
</tr>
<tr>
<td>Suspension &amp; Steering</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Brakes</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Electrical/Electronic Systems</td>
<td>2.0</td>
<td></td>
</tr>
<tr>
<td>Engine Performance</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>5.0</strong></td>
<td></td>
</tr>
<tr>
<td>Career Research &amp; Development (CRD)</td>
<td>ALL</td>
<td></td>
</tr>
<tr>
<td>Career Research &amp; Development</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Career Development, Preparation, &amp; Transition</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Work-based learning</td>
<td>2.0</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>4.0</strong></td>
<td></td>
</tr>
</tbody>
</table>

Consumer Services, Hospitality, and Tourism

<table>
<thead>
<tr>
<th>Career Cluster</th>
<th>Completer Program</th>
<th>SCHOOL Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProStart-Food and Beverage Management</td>
<td>Becoming a Food Service Professionals (Level 1)</td>
<td>LHS</td>
</tr>
<tr>
<td>Becoming a Food Service Professionals (Level 2)</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Practical Experience as a Food Service Professional</td>
<td>2.0</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>4.0</strong></td>
<td></td>
</tr>
</tbody>
</table>

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 Technology Program; CTC = CTP Concentrator Course; EOC = End-of-Course Assessment; FA = Fine Arts; TE = Technology Education; W = Weighted.
A note for counselors: In each completer sequence above, the concentrator course is listed in italics. A concentrator course is the class in the sequence after which students are expected to complete the program.

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.edline.net/files/_vSAIX_/fab532dfaf2f0c213745a49013852ec4/GuideToCareerMajors2018.pdf

Information on the completer programs offered in the Robert D. Stethem Educational Center Career Exploration Program is on page 67 and available on the school website at:
http://www.edline.net/pages/Stethem

**CAREER CLUSTER – HEALTH AND BIOSCIENCES**

**BIOMEDICAL SCIENCES (PROJECT LEAD THE WAY)**

The Biomedical Sciences Program consists of a sequence of four courses and is based on the National Standards for Science, Mathematics, and English Language Arts, and the Accountability Criteria for National Health Care Cluster Foundation Standards. Students who complete the program are prepared for further education at two- and four-year colleges, as well as employment in the biomedical sciences, including healthcare. Each course in the Biomedical Sciences completer program has a required end-of-course assessment.

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

**PRINCIPLES OF THE BIOMEDICAL SCIENCES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade Levels</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>130840</td>
<td>1</td>
<td>Grades 9, 10</td>
<td>CTP</td>
</tr>
</tbody>
</table>

**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 (H)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade Levels</th>
<th>Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>130850</td>
<td>1</td>
<td>Grades 10, 11</td>
<td>CTP, W</td>
</tr>
</tbody>
</table>

**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 as “parts of a whole” that work together to keep the human machine functioning at an optimal level. Using data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and taking on the roles of biomedical professionals prepare students to solve real-world medical cases.

<table>
<thead>
<tr>
<th>Pharmacy Technician</th>
<th>RSEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundations of Medicine &amp; Health Science</td>
<td>1.0</td>
</tr>
<tr>
<td>Structures &amp; Functions of the Human Body</td>
<td>1.0</td>
</tr>
<tr>
<td>Pharmacy Technician Medical Specialty</td>
<td>1.0</td>
</tr>
<tr>
<td>Allied Health Internship</td>
<td>2.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>5.0</strong></td>
</tr>
</tbody>
</table>
MEDICAL INTERVENTIONS (H)
130860  1 credit  Grades 11, 12  Codes: CTC, W
**Prerequisite: 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, W, CC
**Prerequisite: Medical Interventions**
This capstone course of the PLTW Biomedical Science sequence allows students to 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 the scientific and/or medical community to help guide their scientific research.

CAREER CLUSTER – BUSINESS MANAGEMENT & FINANCE

ADMINISTRATIVE SERVICES
The Administrative Services program prepares students for administrative support and secretarial positions needed in various business settings. Students will be prepared to take the Microsoft Office Specialist certification exam in Word. Students who earn this certification will have highly valued skills sought by employers in all major industry sectors.

Required Courses: Four (4) courses are required to achieve Completer Status. See State Approved Career and Technology Education Completer Programs Chart for details.

COMPUTER APPLICATIONS AND CONCEPTS
173310  1 credit  Grades 9, 10, 11, 12  Code: CTP
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.

ADVANCED COMPUTER APPLICATIONS, INTEGRATION, AND DEVELOPMENT
C17332  1 credit  Grades 10, 11, 12  Codes: CC, CTC
**Prerequisite: Computer Applications and Concepts**
This course will teach advanced word processing and spreadsheet skills and also include an introduction to databases. Students in the Administrative Services completer program should be prepared to take the Microsoft Word certification exam.

PRINCIPLES OF BUSINESS AND MANAGEMENT
175084  1 credit  Grades 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.

INVESTMENT AND FINANCIAL MANAGEMENT
178001  1 credit  Grades 11, 12  Code: CTP
**Prerequisite: Strongly recommend that students have solid basic mathematics, logic, and problem-solving skills**
This course provides an in-depth study of financial literacy concepts. A broad spectrum of personal and business financial management topics are covered such as understanding the costs of using credit, establishing and prioritizing financial goals, creating a budget, loan considerations, saving and investing, retirement plans, consumer awareness, and insurance needs. In addition, students gain hands-on investment experience by participating in a stock market simulation.
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: Four (4) courses are required to achieve Completer Status. See State Approved Career and Technology Education Completer Programs Chart for details.

PRINCIPLES OF BUSINESS AND MANAGEMENT
175084 1 credit Grades 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.

INVESTMENT AND FINANCIAL MANAGEMENT
178001 1 credit Grades 11, 12 Code: CTP
Prerequisite: Strongly recommend that students have solid basic mathematics, logic, and problem-solving skills
This course provides an in-depth study of financial literacy concepts. A broad spectrum of personal and business financial management topics are covered such as understanding the costs of using credit, establishing and prioritizing financial goals, creating a budget, loan considerations, saving and investing, retirement plans, consumer awareness, and insurance needs. In addition, students gain hands-on investment experience by participating in a stock market simulation.

ENTREPRENEURSHIP AND E-COMMERCE
178005 1 credit Grades 11, 12 Code: CTC
Prerequisite: Principles of Business and Management OR concurrent enrollment in Principles of Business and Management
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.

ACCOUNTING I
173814 1 credit Grades 10, 11, 12 Code: CTP
This course is designed to acquaint students with the forms, reports, and terminology required by business organizations. The student will plan, analyze, sort, and interpret financial documents for various types of businesses, including service and merchandising concerns. As students complete the accounting cycle, problem solving and decision making skills are improved. Software provides practice and reinforcement of accounting concepts and skills. Additionally, the successful student will acquire a foundation on which to continue studying business principles.

COLLEGE ACCOUNTING
Prerequisite: Accounting I
C17383 1 credit Grades 11, 12 Codes: CC, CTP
This course is designed for students considering college or a career in business. It is an extensive course that will integrate terminology, the accounting processes, computer applications, and accounting for assets and liabilities. Students will develop decision making and problem solving skills necessary for success in a business and an academic environment. No previous Business Education courses are required for enrollment in College Accounting.
CAREER RESEARCH AND DEVELOPMENT

Career Research and Development is a program that consists of two 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 – HUMAN RESOURCE SERVICES

FIRE SCIENCE/FIREFIGHTING

Fire Science/Firefighting is a one-year program that offers students certification in the area of fire, rescue, and emergency medical skills and techniques. Formal training is provided through the University of Maryland, Maryland Fire and Rescue Institute (MFRI).

FIRE & RESCUE CADET

C17800  4 credits  Grades 11, 12  Codes: CC, CTC
This program includes formal training at selected locations supplemented by developmental assignments, field trips, and presentations by guest speakers. Students are required to participate in a practicum of additional performance hours outside of the regular school day, and must be at least 16 years old by the first day of school to enroll in this program. Students who successfully meet MFRI requirements may be eligible for University of Maryland credits.

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  Grade 10, 11  Codes: 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 Grade 11, 12  
Codes: 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 Credit 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 – MANUFACTURING, ENGINEERING AND TECHNOLOGY**
**PATHWAY TO ENGINEERING (PROJECT LEAD THE WAY)**

The Pathway to Engineering Program is a four-year sequence of five (5) courses which, when combined with traditional mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering prior to entering college. Students not intending to pursue further formal education will also benefit from the knowledge and logical thought processes that are taught in this program. Each course in the PLTW completer program has a required end of course assessment.

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

**INTRODUCTION TO ENGINEERING DESIGN**

130740 1 credit Grades 9, 10 Codes: TE, CC, CTP  
**Prerequisite: Completion or current enrollment in Algebra I**

This course allows students to work 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. They complete an in-depth study of the engineering design process, applying math, science, and engineering standards to hands-on projects.

**PRINCIPLES OF ENGINEERING (H)**

130730 1 credit Grades 10, 11 Codes: CC, CTP, W  
**Prerequisite: Introduction to Engineering Design; Algebra I**

This course helps students understand the field of engineering/technology. Exploring various technology systems and manufacturing processes helps students learn how engineers and technicians use mathematics, science, technology, and engineering problem-solving processes to benefit people. The course also includes a review of concerns about the social and political consequences of technological change.

**DIGITAL ELECTRONICS (H)**

130750 1 credit Grades 11, 12 Codes: CC, CTC, W  
**Prerequisite: Principles of Engineering and Introduction to Engineering Design**

This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. 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

This engineering research course requires students to work in teams to research, design and construct a solution to an open-ended engineering problem. Students apply principles developed in the preceding courses and are guided by both the instructor and a community mentor. They must present progress reports, submit a final written report, and defend their solutions to a panel of outside reviewers at the end of the school year. This course may be combined with the Capstone course from the Biomedical Sciences pathway, allowing students from both pathways to work together to engineer a product that could impact healthcare.

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.

COMPUTER INTEGRATED MANUFACTURING

130760 1 credit Grades 11, 12 Codes: CC, CTP, W
Prerequisite: Principles of Engineering, Introduction to Engineering Design, completed or currently enrolled in Digital Electronics

This course applies the principles of robotics and automation to the field of engineering. The course builds on computer solid-modeling skills developed in Introduction to Engineering Design. Students use Computer Numerical Control (CNC) equipment to produce actual models of their 3D designs. Fundamental concepts of robotics used in automated manufacturing and design analysis are included.

BIOTECHNICAL ENGINEERING

130790 1 credit Grades 11, 12 Codes: CC, CTP, W
Prerequisite: Biology; Principles of Engineering; Introduction to Engineering Design and completed or currently enrolled in Digital Electronics

This course exposes students to the diverse fields of biotechnology including biomedical engineering, biomolecular genetics, bioprocess engineering, and agricultural and environmental engineering. Students engage in engineering design problems related to biomechanics, cardiovascular engineering, genetic engineering, agricultural biotechnology, tissue engineering, biomedical devices, human interface, bioprocesses, forensics, and bio-ethics. Students develop advanced skills in biology, physics, technology, and mathematics and apply them to real-world biotech fields.

CIVIL ENGINEERING AND ARCHITECTURE

130751 1 credit Grades 11, 12 Codes: CC, CTP, W
Prerequisite: Principles of Engineering, Introduction to Engineering Design, completed or currently enrolled in Digital Electronics

This course applies the principles of civil engineering and architecture to the design and development of residential and commercial properties and structures. Students use 3D design software to help them design solutions to solve major course projects and build on computer solid modeling skills developed in prerequisite courses. Working in teams, students explore hands-on activities and projects to learn the characteristics of civil engineering and architecture. Students learn about documenting their project, solving problems and communicating their solutions to their peers and members of the professional community of civil engineering and architecture.

AEROSPACE ENGINEERING

130770 1 credit Grades 11, 12 Codes: CC, CTP, 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.
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.

HUMAN GROWTH AND DEVELOPMENT THROUGH ADOLESCENCE
120534  1 credit  Grade 10  Code: CTP
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.

TEACHING AS A PROFESSION
120544  1 credit  Grade 11  Code: CTP
Prerequisite: Human Growth and Development Through Adolescence
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.

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
120574  1 credit  Grade 12  Codes: CC, CTP
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.
All students need to be proficient computer users. Computers are tools used to solve problems, access information and improve productivity. Students who are planning to attend four-year universities and students who are planning to go directly into the work force must be computer literate. Students should have a solid foundation in word processing, spreadsheets, charting, database, telecommunications, and usage of the Internet. There are several courses in this sequence that will provide the necessary computer foundation needed in today’s society. In addition, this course of study offers advanced computer training for those students who plan to work directly in the computing field.

ADVANCED COMPUTER APPLICATIONS, INTEGRATION, AND DEVELOPMENT
C17332 1 credit Grades 10, 11, 12 Codes: CC, CTC

Prerequisite: Computer Applications and Concepts
This course will teach advanced word processing and spreadsheet skills and also include an introduction to databases. Students in the Administrative Services completer program should be prepared to take the Microsoft Word certification exam.

ADVANCED PLACEMENT COMPUTER SCIENCE A
179030 1 credit Grades 10, 11, 12 Code: W

Prerequisite: Programming - Java
This course is designed to prepare students for the AP Computer Science A examination. The course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development using Java. It also includes the study of data structures, design, and procedural and data abstraction. Many topics covered in this course are mathematically based and require a firm understanding of algebraic concepts.

COMPUTER APPLICATIONS AND CONCEPTS
173310 1 credit Grades 9, 10, 11, 12 Code: CTP

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.

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: Programming - Java, 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 PRINCIPLES
P79060 1 credit Grades 10, 11, 12 Code: W

Prerequisite: Designing Technology Solutions or Programming-Java
Designed by the College Board, Computer Science Principles course provides students the opportunity use programming, computational thinking, and data analytics to create digital artifacts and documents representing design and analysis in areas including the Internet, algorithms, and the impact that these have on science, business, and society. Computer Science Principles course teach students to use computational tools and techniques including abstraction, modeling, and simulation to collaborate in solving problems that connect computation to their lives.

DESIGNING TECHNOLOGY SOLUTIONS
179040 1 credit Grades 9, 10, 11, 12 Code: TE

Prerequisite: Completion of concurrent enrollment in Algebra I
In this course, students are introduced to engineering design and development through programming, software engineering and robotics technology. Students will explore and develop an understanding of technological issues and their influence on history. Through the study of energy and power, construction, manufacturing and communication,
students will complete projects that enable them to develop software for authentic applications. Students interested in pursuing a career in computer science are encouraged to take this course.

**PROGRAMMING – JAVA (HONORS)**

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<td>179015</td>
<td>1</td>
<td>9, 10, 11, 12</td>
<td>W</td>
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**Prerequisite: Algebra I**

This course includes fundamental concepts and methods of object-oriented programming and object-oriented design taught through Java programming. Students will learn to implement programming control structures, create Java applets and build graphical user-interfaces.

**WEB DESIGN AND DEVELOPMENT I**

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<td>179016</td>
<td>1</td>
<td>9, 10, 11, 12</td>
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**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**

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<tr>
<td>179017</td>
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<td>10, 11, 12</td>
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**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.
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

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<tr>
<td>017020</td>
<td>11, 12</td>
<td>English II or III Honors</td>
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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

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<tr>
<td>017010</td>
<td>12</td>
<td>English III Honors or AP Language and Composition</td>
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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.**

### ENGLISH I (HONORS)

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<tr>
<td>011010</td>
<td>9</td>
<td>EOC, W</td>
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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)

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<td>011011</td>
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<td>EOC</td>
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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)

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<tr>
<td>01981V, W, or X</td>
<td>9</td>
<td>EOC</td>
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This course is available to students on recommendation of the IEP (Individualized Education Program) 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 Honors or A Level
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, W, or X 1 credit Grade 10 Code: EOC
This course is available to students on recommendation of the IEP (Individualized Education Program) 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 Code: W
Prerequisite: English II Honors or A Level
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
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, W, or X 1 credit Grade 11
This course is available to students on recommendation of the IEP (Individualized Education Program) 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 Honors or A Level
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 Honors or A Level
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, W, or X 1 credit Grade 12

This course is available to students on recommendation of the IEP (Individualized Education Program) 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 Language Learners (ELLs) whose native or first language is not English. 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 W-APT Diagnostic English Proficiency Test.

Coursework focuses on the four domains of listening, speaking, reading, and writing within the context of the core curriculum and the World-Class instructional Design and Assessment (WIDA) English Language-Development (ELD) Standards. The ESOL teachers work closely with classroom teachers to assist the ELL 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 Language Learners) annual assessment.

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 have demonstrated limited English proficiency as measured by the W-APT Diagnostic 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 English Language Learners who need to develop more advanced skills in English listening, speaking, reading, and writing. English Language Learners 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 English Language Learners 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  
Grade 9, 10, 11, 12

**Prerequisite: ESOL III and approval of ESOL instructor, school counselor, and parent**

This elective course provides academic support and language application for Expanding and Bridging English Language Learners 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.

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**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.

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**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.

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**FASHION DESIGN**

120684  
1 credit  
Grades 10, 11, 12  
Code: FA

**Prerequisite: Textiles and Apparels or approval of instructor**

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.

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**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.

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**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. A laboratory fee may be required for this course.

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**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. A laboratory fee may be required for this course.

**RETAIL MERCHANDISING I**
120734 1 credit Grades 9, 10, 11, 12
This course is designed as an introduction to the principles of marketing. It is a comprehensive study of marketing concepts, critical and creative thinking skills, technologies, communication, and interpersonal skills required for a success in a marketing career. These marketing concepts are taught with an emphasis in fashion marketing. Students are expected to design and present projects that reflect their understanding of these concepts.

**TEXTILES AND APPARELS**
120624 1 credit Grades 9, 10, 11, 12
This is an introductory textile course which meets the prerequisite for Fashion Design. This course is 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**

Today's 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.

The course covers a wide variety of financial literacy topics including credit card usage, credit scores, checking and saving accounts, preparing a budget, buying a car, and income considerations.

**All freshmen entering in high school 2015 must take Personal Financial Literacy 120524 to fulfill the graduation requirement.**

**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.
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 and Art II are the foundation courses and prerequisites for all advanced classes. Project/supply fees will be the responsibility of the student for designated courses.

**ADVANCED ART**

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<tr>
<td>067010</td>
<td>1</td>
<td>11, 12</td>
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**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**

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<td>060410</td>
<td>1</td>
<td>10, 11, 12</td>
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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**

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<td>060530</td>
<td>1</td>
<td>11, 12</td>
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**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, computer-generated art, animation cells, photographs, etc. The evaluation of portfolio materials will reflect three areas of concern: quality, breadth, and concentration.

**ADVANCED PLACEMENT STUDIO ART: 2-D DESIGN**

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<tr>
<td>060510</td>
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**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.

**ADVANCED PLACEMENT STUDIO ART: 3-D DESIGN**

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<tr>
<td>060520</td>
<td>1</td>
<td>11, 12</td>
<td>FA, W</td>
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**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.
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.

INDEPENDENT STUDY: ART
06996T or U ½ credit Grades 11, 12 Code: FA
069961 1 credit Grades 11, 12
Prerequisite: Art II and approval of instructor and principal
Where facilities, equipment, and staffing permit, independent study for advanced art students is available.

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.
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 Technology Program; CTC = CTP Concentrator Course; EOC = End-of-Course Assessment; FA = Fine Arts; TE = Technology Education; W = Weighted

PRINTING ARTS
069964  1 credit  Grades 10, 11, 12  Code: FA
Prerequisite: Art II or approval of instructor
This course will explore various techniques as they relate to the history of reproducing art. Production techniques may include etching and engraving and computer-based graphic production. The cultural, historical, and business aspects will be covered and emphasized in the design for student projects. Students will apply their knowledge of the principles and elements of art to solve each design problem and will be required to utilize the art criticism process to analyze all products.

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.

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.

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:
1. Instruction in vocal and instrumental music performance for those students who began a sequential program of training at the elementary and middle school levels
2. Beginning instruction in music performance to promising students with no previous instruction
3. Music electives for non-performing students who wish to extend their general knowledge of the world of music, or
4. 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 National 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.
INDEPENDENT STUDY: MUSIC

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<td>08152T or U</td>
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<tr>
<td>081524</td>
<td>1 credit</td>
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Prerequisite: Approval of instructor and principal

Where facilities, equipment, and staffing permit, independent study for advanced music students is available. Individualized listening centers and sound-isolated practice areas will be necessary for certain types of study. Independent study may be scheduled for vocal music, instrumental music, music theory, music literature, or piano.

MUSIC THEORY

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<td>Grades 9, 10, 11, 12</td>
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<tr>
<td>089954</td>
<td>1 credit</td>
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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.

SURVEY OF MUSIC

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<td>08153T or U</td>
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<tr>
<td>081514</td>
<td>1 credit</td>
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This course focuses on expanding knowledge of the world of music. Music of many different styles, cultures and time periods will be studied. Students will also explore the role and importance of music in contemporary society.

INSTRUMENTAL ELECTIVES

BEGINNING BAND

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<th>Course Code</th>
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<tr>
<td>080714</td>
<td>1 credit</td>
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This course provides the fundamentals of basic wind and percussion instruments and the principles of operation, care, and maintenance of instruments are taught. As progress is achieved, elementary band arrangements are introduced to acquaint the students with techniques of playing in large and small ensembles.

CLASS PIANO I

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<tr>
<td>08051T or U</td>
<td>½ credit</td>
<td>Grades 9, 10, 11, 12</td>
<td>FA</td>
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<tr>
<td>080514</td>
<td>1 credit</td>
<td>Grades 9, 10, 11, 12</td>
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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.

CLASS PIANO II

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<tr>
<td>080524</td>
<td>1 credit</td>
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Prerequisite: Class Piano I

CLASS PIANO III

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<tr>
<td>080534</td>
<td>1 credit</td>
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Prerequisite: Class Piano II

CLASS PIANO IV

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<td>½ credit</td>
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<tr>
<td>080544</td>
<td>1 credit</td>
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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.
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.

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.

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.
ORCHESTRA I
088114  1 credit  Grades 9, 10, 11, 12  Code: FA
Prerequisite: Approval of instructor

ORCHESTRA II
088124  1 credit  Grades 10, 11, 12  Code: FA
Prerequisite: Orchestra I

ORCHESTRA III
088134  1 credit  Grades 11, 12  Code: FA
Prerequisite: Orchestra II

ORCHESTRA IV
088144  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, IV, and V 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.

ORCHESTRA I (HONORS)
088110  1 credit  Grades 9, 10, 11, 12  Codes: FA, W
Prerequisite: Approval of instructor

ORCHESTRA II (HONORS)
088120  1 credit  Grades 10, 11, 12  Codes: FA, W
Prerequisite: Orchestra I

ORCHESTRA III (HONORS)
088130  1 credit  Grades 11, 12  Codes: FA, W
Prerequisite: Orchestra II

ORCHESTRA IV (HONORS)
088140  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.

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.
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. Afterschool rehearsals and public performances outside of the regular school day are a crucial component of these courses.

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. Afterschool rehearsals and public performances outside of the regular school day are a crucial component of these courses.

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. Afterschool rehearsals and public performances outside of the regular school day are a crucial component of these courses.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Grade Levels</th>
<th>Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>081014 MIXED CHORUS I</td>
<td>1</td>
<td>9, 10, 11, 12</td>
<td>FA</td>
</tr>
<tr>
<td>081024 MIXED CHORUS II</td>
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<td>SHOW CHOIR I (HONORS)</td>
<td>1</td>
<td>9, 10, 11, 12</td>
<td>FA, W</td>
</tr>
<tr>
<td>SHOW CHOIR II (HONORS)</td>
<td>1</td>
<td>10, 11, 12</td>
<td>FA, W</td>
</tr>
<tr>
<td>SHOW CHOIR III (HONORS)</td>
<td>1</td>
<td>11, 12</td>
<td>FA, W</td>
</tr>
<tr>
<td>SHOW CHOIR IV (HONORS)</td>
<td>1</td>
<td>12</td>
<td>FA, W</td>
</tr>
<tr>
<td>VOICE CLASS</td>
<td>1</td>
<td>9, 10, 11, 12</td>
<td>FA</td>
</tr>
<tr>
<td>WOMEN’S CHORUS I</td>
<td>1</td>
<td>9, 10, 11, 12</td>
<td>FA</td>
</tr>
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<td>WOMEN’S CHORUS II</td>
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<tr>
<td>WOMEN’S CHORUS III</td>
<td>1</td>
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<td>FA</td>
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<tr>
<td>WOMEN’S CHORUS IV</td>
<td>1</td>
<td>12</td>
<td>FA</td>
</tr>
</tbody>
</table>

**MIXED CHORUS I**
These courses provide the fundamentals of part-singing, vocal techniques, sight-singing, and music reading. Afterschool rehearsals and public performance may be an outgrowth of these courses.

**Show Choirs**
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. Students 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. Afterschool rehearsals and public performances outside of the regular school day are a crucial component of these courses.

**Voice Class**
This class provides the fundamentals of good vocal production. Activities include the solo performance of songs and class discussion of theory, style and problems of vocal production. Phonetic readings in a variety of languages will be included.

**Women’s Choruses**
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. Afterschool rehearsals and public performances outside the regular school day are a crucial component of these courses.

**Theatre Electives**
The theatre electives provide students opportunities to explore the creative process through collaborative theater 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.
ACTING FOR THE CAMERA
01802T or U ½ credit Grades 11, 12
This course will prepare students for a technological world and will focus on the techniques of acting for film and television. Students will learn how to prepare a film resume, obtain an agent, and other beneficial career elements.

CLASSICAL ACTING
01803T or U ½ credit Grades 11, 12
This course will focus on acting techniques used by Shakespearean actors. It will also focus on classical literature such as Greek Comedy and Tragedy, and eras such as the Medieval, Renaissance, and Restoration eras.

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.

LITERARY ADAPTATION
01805T or U ½ credit Grades 11, 12
This course will focus on the creation of new work and the adaptation and direction of existing work for theatrical performance. The course will explore literary texts as a source for learning, production, and exploring techniques for adapting material for theatrical performance.

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.

PLAYWRITING
01807T or U ½ credit Grades 11, 12
This course covers how to create play scripts and monologues for theatre. Students will cover the areas of characterization, dialogue, conflict, setting, imaginative writing, obstacles, and action. Culminating projects may include staged readings, student-directed pieces, or one-act contests.

READER’S THEATRE
01808T or U ½ credit Grades 11, 12
This course focuses on script selection and adaption to performance; directing and staging techniques; and voice projection. The course is intended for the person who loves theatre and the spoken word. While not necessarily a performance class, this class focuses on presenting the play or skit with dramatic presence.

SHAKESPEARE
01809T or U ½ credit Grades 11, 12
This course provides an in-depth examination of Shakespearean literature through reading, viewing, and performing various Shakespearean plays. Emphasis will be on works not typically covered in English classes. Shakespeare’s plays will be used as the vehicle to examine theme, literary and dramatic elements, characterization, actor motivation, and technical design. Culminating projects may include written analyses, scene or monologue performance, and/or design work for various technical elements of production.

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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 Technology Program; CTC = CTP Concentrator Course; EOC = End-of-Course Assessment; FA = Fine Arts; TE = Technology Education; W = Weighted
### THEATRE ARTS

**THEATRE ARTS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Grades</th>
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<tr>
<td>014024</td>
<td>1</td>
<td>9, 10, 11, 12</td>
<td>FA</td>
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</tbody>
</table>

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

### ACTING

**ACTING**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<th>Code(s)</th>
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<tbody>
<tr>
<td>014034</td>
<td>1</td>
<td>10, 11, 12</td>
<td>FA</td>
</tr>
</tbody>
</table>

*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 crucial components of this course.

### ADVANCED ACTING I (HONORS)

**ADVANCED ACTING I (HONORS)**

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<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Grades</th>
<th>Code(s)</th>
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<tr>
<td>014044</td>
<td>1</td>
<td>11, 12</td>
<td>FA, W</td>
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</tbody>
</table>

*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)

**ADVANCED ACTING II (HONORS)**

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<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>014054</td>
<td>1</td>
<td>12</td>
<td>FA, W</td>
</tr>
</tbody>
</table>

*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.

### INDEPENDENT STUDY: THEATRE

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>01402T or U</td>
<td>½</td>
<td>10, 11, 12</td>
<td>FA</td>
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<tr>
<td>01402I</td>
<td>1</td>
<td>10, 11, 12</td>
<td>FA</td>
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</tbody>
</table>

*Prerequisite: Approval of instructor and principal*

Where facilities, equipment, and staffing permit, independent study for advanced theatre students is available.

### MULTI-MEDIA PRODUCTION I

**MULTI-MEDIA PRODUCTION I**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Grades</th>
<th>Code(s)</th>
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<tr>
<td>015005</td>
<td>1</td>
<td>10, 11, 12</td>
<td>FA</td>
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</table>

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 multi-media 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.

### MULTI-MEDIA PRODUCTION II

**MULTI-MEDIA PRODUCTION II**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Grades</th>
<th>Code(s)</th>
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<tbody>
<tr>
<td>015006</td>
<td>1</td>
<td>11, 12</td>
<td>FA, W</td>
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</tbody>
</table>

*Prerequisite: Multi-Media Production I*

### MULTI-MEDIA PRODUCTION III (HONORS)

**MULTI-MEDIA PRODUCTION III (HONORS)**

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<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Grade</th>
<th>Code(s)</th>
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<tbody>
<tr>
<td>015007</td>
<td>1</td>
<td>12</td>
<td>FA, W</td>
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</tbody>
</table>

*Prerequisite: Multi-Media 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 multi-media equipment. These classes will be project-based with students enhancing previously acquired knowledge and skills through hands-on work.
INDEPENDENT STUDY: MULTI-MEDIA

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<thead>
<tr>
<th>Code</th>
<th>Credit</th>
<th>Grades</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>01500T</td>
<td>½ credit</td>
<td>Grades 10, 11, 12</td>
<td>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 Technology Program; CTC = CTP Concentrator Course; EOC = End-of-Course Assessment; FA = Fine Arts; TE = Technology Education; W = Weighted</td>
</tr>
<tr>
<td>01500I</td>
<td>1 credit</td>
<td>Grades 10, 11, 12</td>
<td><strong>Prerequisite: Approval of instructor and principal</strong> Where facilities, equipment, and staffing permit, independent study for advanced multi-media students is available.</td>
</tr>
</tbody>
</table>

HEALTH

The Health Education Program focuses on the prevention of health problems and the development of behaviors that lead to a healthy lifestyle. Students are taught wellness concepts, skills, attitudes, and behaviors that enable them to make responsible decisions about their health.

FAMILY LIFE AND HUMAN DEVELOPMENT

<table>
<thead>
<tr>
<th>Code</th>
<th>Credit</th>
<th>Grades</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>07982T</td>
<td>½ credit</td>
<td>Grades 10, 11, 12</td>
<td>This elective course is designed to develop an understanding of human sexual behavior and human development. Topics include interpersonal relationships, adolescent sexuality, family planning, human reproduction, teenage pregnancy, life stages, sexually transmitted diseases, sexual variations, and sexual assault/abuse. Parental permission is required.</td>
</tr>
<tr>
<td>07982U</td>
<td>½ credit</td>
<td>Grades 10, 11, 12</td>
<td></td>
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FIRST AID AND SAFETY

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<tr>
<th>Code</th>
<th>Credit</th>
<th>Grades</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>07999T</td>
<td>½ credit</td>
<td>Grades 10, 11, 12</td>
<td><strong>Prerequisite: Health</strong> This elective course is designed to provide knowledge to certify interested students in the areas of cardiopulmonary resuscitation and American Red Cross first aid. Optional topics could include boating and hunter safety.</td>
</tr>
<tr>
<td>07999U</td>
<td>½ credit</td>
<td>Grades 10, 11, 12</td>
<td></td>
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HEALTH

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<th>Code</th>
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<tbody>
<tr>
<td>070574</td>
<td>½ credit</td>
<td>Grades 9, 10, 11, 12</td>
<td>This required course focuses on comprehensive health education. Topics of study include nutrition, fitness, substance abuse prevention, mental and emotional health, consumer health, first aid and safety, disease prevention and control, and family life and human sexuality.</td>
</tr>
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</table>

PERSONAL HEALTH/FAMILY LIFE AND HUMAN DEVELOPMENT

<table>
<thead>
<tr>
<th>Code</th>
<th>Credit</th>
<th>Grades</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>07981V</td>
<td>1 credit</td>
<td>Grades 9, 10, 11, 12</td>
<td>This elective course provides awareness of the basic facts and responsibilities associated with managing personal health, sexual activity, human reproduction, family relationships, and child rearing. Major emphasis is placed on problem solving and decision making. This course is available to students on the recommendation of the IEP (Individualized Education Program) Committee. Individual goals and objectives are developed in an IEP.</td>
</tr>
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</table>

SPORTS MEDICINE

<table>
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<tr>
<th>Code</th>
<th>Credit</th>
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<tbody>
<tr>
<td>07998T</td>
<td>½ credit</td>
<td>Grades 10, 11, 12</td>
<td><strong>Prerequisite: Health</strong> This elective course focuses on the presentation, treatment, and rehabilitation of injuries. Additional topics include nutrition, fitness, substance abuse prevention, and the practical application of diagnosing, treating, and taping procedures. Students will also receive training in cardiopulmonary resuscitation (CPR).</td>
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<tr>
<th>Code</th>
<th>Credit</th>
<th>Grades</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>07998U</td>
<td>½ credit</td>
<td>Grades 10, 11, 12</td>
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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).

NOTE: All AFJROTC projects that meet the criteria for student service learning may count towards the student service learning required by MSDE for graduation.

**AFJROTC I**

<table>
<thead>
<tr>
<th>Code</th>
<th>Credit</th>
<th>Grades</th>
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</thead>
<tbody>
<tr>
<td>188021</td>
<td>1</td>
<td>9, 10, 11, 12</td>
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</table>

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**

<table>
<thead>
<tr>
<th>Code</th>
<th>Credit</th>
<th>Grades</th>
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</thead>
<tbody>
<tr>
<td>188022</td>
<td>1</td>
<td>10, 11, 12</td>
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</table>

**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**

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<thead>
<tr>
<th>Code</th>
<th>Credit</th>
<th>Grades</th>
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<tbody>
<tr>
<td>188023</td>
<td>1</td>
<td>11, 12</td>
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</table>

**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 must meet CCPS extracurricular eligibility requirements, have a 2.0 technical GPA in JROTC 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.

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; 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 10 areas: leadership, communication skills, physical fitness, first aid and hygiene, map reading, American military history, citizenship, technology awareness, career opportunities and the role of the U.S. Army.

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).

NOTE: All AJROTC projects that meet the criteria for student service learning may count towards the student service learning required by MSDE for graduation.
### LEADERSHIP EDUCATION TRAINING (LET) 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Credit</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>188031</td>
<td>1</td>
<td>9, 10, 11, 12</td>
</tr>
</tbody>
</table>

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 Cardiopulmonary 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Credit</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>188032</td>
<td>1</td>
<td>10, 11, 12</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>188033</td>
<td>1</td>
<td>11, 12</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>188034</td>
<td>1</td>
<td>12</td>
</tr>
</tbody>
</table>

**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.
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, have a 2.0 technical GPA in JROTC 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.

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).

NOTE: All NJROTC projects that meet the criteria for student service learning may count towards the student service learning required by MSDE for graduation.

NJROTC I

188011 1 credit Grades 9, 10, 11, 12
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, Tobacco.

NJROTC II

188012 1 credit Grades 10, 11, 12
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
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, have a 2.0 technical GPA in JROTC 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).

NOTE: All MCJROTC projects that meet the criteria for student service learning may count towards the student service learning required by MSDE for graduation.
MCJROTC I
188041  1 credit  Grades 9, 10, 11, 12
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 extracurricular 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
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
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.
LIBRARY MEDIA

LIBRARY MEDIA STUDENT ASSISTANT I
019944  ½ credit  Grades 10, 11, 12
Prerequisite: Approval of Library Media Specialist

LIBRARY MEDIA STUDENT ASSISTANT II
019954  ½ credit  Grades 11, 12
Prerequisite: Library Assistant I and approval of Library Media Specialist

These courses allow students to earn one-half credit for each year of satisfactory performance. While assisting in the operation of the school Library Media Center, the student assistant will learn fundamentals of materials location, information retrieval, and reference skills. The student assistant will also learn and practice tasks related to the preparation of materials for circulation and the use of instructional technology.

LIFE SKILLS

The Life Skills 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 Life Skills Program will participate in the Alternate Maryland School Assessment (Alt-MSA) during their 10th grade year.

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 Common Core State Standards.

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 Math Common Core State Standards.
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 Biology Common Core State 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.
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**

<table>
<thead>
<tr>
<th>9th Grade</th>
<th>10th Grade</th>
<th>11th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra 1</td>
<td>Geometry</td>
<td>Algebra with Trig and Stats</td>
<td>Algebra 2</td>
</tr>
<tr>
<td>Foundations of Algebra</td>
<td>Geometry (Honors)</td>
<td>Algebra 2 (Honors)</td>
<td>College Prep Math</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pre-Calculus</td>
<td>AP Statistics</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Advanced Algebra with Trig.</td>
</tr>
<tr>
<td>Geometry (Honors)</td>
<td>Algebra 2 (Honors)</td>
<td>Pre-Calculus (elective)</td>
<td>AP Calculus</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>AP Statistics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Advanced Algebra with Trig.</td>
<td>Pre-Calculus (elective)</td>
</tr>
</tbody>
</table>

1. Students cannot receive mathematics credit for both Advanced Algebra with Trigonometry and Algebra with Trigonometry and Statistics.
2. 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)**

Prerequisite: Algebra II and Geometry

This course is designed to further prepare students for AP 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.

**ADVANCED PLACEMENT CALCULUS AB**

Prerequisite: Pre-Calculus

This is the culminating course in a series of mathematics courses offered in our high schools. It will prepare students to take the AB Calculus Advanced Placement (AP) Test if desired. It includes such topics as functions and derivatives, integration, limits, differential equations, applications, and graphs. A graphing calculator is highly recommended for this course.

**ADVANCED PLACEMENT CALCULUS BC**

Prerequisite: AP Placement Calculus AB

This course is designed to emphasize 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. The Texas Instruments TI-84 Silver Edition or a calculator with equivalent or greater capability is recommended.
ADVANCED PLACEMENT STATISTICS
037030 1 credit Grades 11, 12 Code: W
Prerequisite: Algebra II
This course is designed for students who desire to prepare to take the national examination offered by the College Board in Advanced Placement Statistics. The four broad conceptual themes of the course include: exploring data, planning a study, anticipating patterns and statistical inference.

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, W, or X 1 credit Grade 9 Code: EOC
This course is available to students on recommendation of the IEP Committee (Individualized Education Program). Individual goals and objectives are developed in an Individualized Education Program (IEP) that reflects a student's level of performance and rate of learning.

ALGEBRA II (HONORS)
032010 1 credit Grades 10, 11 Code: 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 2 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
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 APPLICATIONS
03153T or U ½ credit Grades 9, 10, 11
031534 1 credit Grades 9, 10, 11
This course provides students additional time and support to develop their knowledge and skills of algebra. The course may be concurrently paired with an existing Algebra course or offered at a different time in the student’s schedule. The course provides elective credit in mathematics but does not satisfy the graduation requirement for Algebra I.

ALGEBRA WITH TRIGONOMETRY AND STATISTICS
034014 1 credit Grades 11, 12
This course focuses on algebraic problem solving techniques, trigonometric concepts and statistical analysis. Students will apply the 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.

ELEMENTARY ALGEBRA II
032034 1 credit Grades 9, 10, 11, 12
Prerequisite: Algebra I and/or Geometry
This course is available to students who have not satisfied the math requirements for a State of Maryland diploma. Topics include linear functions, inequalities, non-linear functions, polynomials, quadratic equations, systems of equations, exponential functions and statistics.
ELEMENTARY ALGEBRA II (INDIVIDUALIZED)
03203V, W, or X 1 credit Grades 9, 10, 11, 12
Prerequisite: Algebra I and/or Geometry
This course is available to students on recommendation of the IEP Committee. Individual goals and objectives are developed in an Individualized Education Program (IEP) that reflects a student's level of performance and rate of learning.

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.

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.

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.

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

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**

<table>
<thead>
<tr>
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<th>Requirement</th>
<th>Credit</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
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<td>07054T or U</td>
<td>½ credit</td>
<td>Grades 11, 12</td>
<td></td>
</tr>
<tr>
<td>070544</td>
<td>1 credit</td>
<td>Grades 11, 12</td>
<td></td>
</tr>
</tbody>
</table>

**Prerequisite: Advanced Physical Education I**

**ADVANCED PHYSICAL EDUCATION III**

<table>
<thead>
<tr>
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<th>Credit</th>
<th>Grade</th>
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<tbody>
<tr>
<td>07055T or U</td>
<td>½ credit</td>
<td>Grade 12</td>
<td></td>
</tr>
<tr>
<td>070554</td>
<td>1 credit</td>
<td>Grade 12</td>
<td></td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
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<th>Requirement</th>
<th>Credit</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>07997T or U</td>
<td>½ credit</td>
<td>Grades 10, 11, 12</td>
<td></td>
</tr>
</tbody>
</table>

**Prerequisite: Fitness for Life**

**AEROBICS II**

<table>
<thead>
<tr>
<th>Code</th>
<th>Requirement</th>
<th>Credit</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>07988T or U</td>
<td>½ credit</td>
<td>Grades 11, 12</td>
<td></td>
</tr>
</tbody>
</table>

**Prerequisite: Aerobics I**

**AEROBICS III**

<table>
<thead>
<tr>
<th>Code</th>
<th>Requirement</th>
<th>Credit</th>
<th>Grade</th>
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<tbody>
<tr>
<td>07989T or U</td>
<td>½ credit</td>
<td>Grade 12</td>
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</tbody>
</table>

**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 cardiorespiratory fitness.

**BASIC WEIGHT TRAINING I**

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<thead>
<tr>
<th>Code</th>
<th>Requirement</th>
<th>Credit</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>07065T or U</td>
<td>½ credit</td>
<td>Grades 11, 12</td>
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</tbody>
</table>

**Prerequisite: Introduction to Weight Training**

**BASIC WEIGHT TRAINING II**

<table>
<thead>
<tr>
<th>Code</th>
<th>Requirement</th>
<th>Credit</th>
<th>Grade</th>
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<tbody>
<tr>
<td>07066T or U</td>
<td>½ credit</td>
<td>Grade 12</td>
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</tbody>
</table>

**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**

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<tr>
<th>Code</th>
<th>Requirement</th>
<th>Credit</th>
<th>Grades</th>
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</thead>
<tbody>
<tr>
<td>070514</td>
<td>½ credit</td>
<td>Grades 9, 10, 11, 12</td>
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</tbody>
</table>

**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.

**WALKING FOR WELLNESS**

<table>
<thead>
<tr>
<th>Code</th>
<th>Requirement</th>
<th>Credit</th>
<th>Grades</th>
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</thead>
<tbody>
<tr>
<td>07067T or U</td>
<td>½ credit</td>
<td>Grades 10, 11, 12</td>
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<tr>
<td>070664</td>
<td>1 credit</td>
<td>Grades 10, 11, 12</td>
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</tbody>
</table>

**Prerequisite: Fitness for Life**

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.

**INTRODUCTION TO WEIGHT TRAINING**

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<tr>
<th>Code</th>
<th>Requirement</th>
<th>Credit</th>
<th>Grades</th>
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</thead>
<tbody>
<tr>
<td>07064T or U</td>
<td>½ credit</td>
<td>Grades 10, 11, 12</td>
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</table>

**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

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<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Grades</th>
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<tbody>
<tr>
<td>07996T or U</td>
<td>½ credit</td>
<td>Grades 10, 11, 12</td>
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<tr>
<td>079964</td>
<td>1 credit</td>
<td>Grades 10, 11, 12</td>
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</tbody>
</table>

**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

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<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Grades</th>
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<tbody>
<tr>
<td>07061T or U</td>
<td>½ credit</td>
<td>Grades 10, 11, 12</td>
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### PHYSICAL EDUCATION AND SPORT II

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<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Grades</th>
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<tbody>
<tr>
<td>07062T or U</td>
<td>½ credit</td>
<td>Grades 10, 11, 12</td>
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</table>

**Prerequisite: Fitness for Life and 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 co-educational basis and are structured to meet the interests and needs of the students.

### PHYSICAL EDUCATION LEADERSHIP AND DISABILITY AWARENESS

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<tr>
<th>Course Code</th>
<th>Credit</th>
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<tbody>
<tr>
<td>P79985</td>
<td>1 credit</td>
<td>Grades 10, 11, 12</td>
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</table>

**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. Specific assignments will center on disability awareness.

### SPORTS OFFICIATING I

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<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
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<tbody>
<tr>
<td>07994</td>
<td>1 credit</td>
<td>Grades 10, 11, 12</td>
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</table>

**Prerequisite: Fitness for Life**

### SPORTS OFFICIATING II

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<th>Course Code</th>
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<th>Grades</th>
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<tr>
<td>07995</td>
<td>1 credit</td>
<td>Grades 10, 11, 12</td>
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</table>

**Prerequisite: Sports Officiating I**

### SPORTS OFFICIATING III

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<th>Course Code</th>
<th>Credit</th>
<th>Grades</th>
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<tr>
<td>079955</td>
<td>1 credit</td>
<td>Grades 10, 11, 12</td>
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**Prerequisite: Sports Officiating II**

This course trains 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.

### SWIM - INTERMEDIATE

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<th>Course Code</th>
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<tr>
<td>07071T or U</td>
<td>½ credit</td>
<td>Grades 10, 11, 12</td>
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**Prerequisite: Fitness for Life, able to swim 500 yards non-stop and departmental approval**

This course will offer instruction in conditioning techniques that will use both aquatic and land-based environments. The students will gain an understanding of muscle physiology and how various forms of exercise can be used to condition and maintain the human body.

### SWIM - ADVANCED

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<tr>
<th>Course Code</th>
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<th>Grades</th>
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<tr>
<td>07072T or U</td>
<td>½ credit</td>
<td>Grades 10, 11, 12</td>
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</table>

**Prerequisite: Swim Intermediate, able to tread water for two minutes and departmental approval**

This course emphasizes perfecting various swimming strokes, rescue techniques and aquatic skills necessary to earn an American Red Cross Life Guarding Certificate. Course will include CPR and First Aid Certification.

### SWIMMING AND CONDITIONING I

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<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Grades</th>
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<tr>
<td>070734</td>
<td>1 credit</td>
<td>Grades 10, 11, 12</td>
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</table>
**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 ninth 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.

**WATER SAFETY INSTRUCTOR**

070814 1 credit Grades 10, 11, 12

07081T or U ½ credit Grades 10, 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**

**WEIGHT TRAINING AND CONDITIONING III**

079934 1 credit Grade 12

**Prerequisite: Weight Training and Conditioning II**

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.
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 and Space Science, Biology, and Chemistry or Applied 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

**Code:** 047310  
**Credits:** 1  
**Grades:** 11, 12  
**Code:** W  
**Prerequisite:** Biology, Chemistry 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 biology. Advanced mathematics may be employed in the solution of problems and laboratory analysis.

### Advanced Placement Chemistry

**Code:** 047110  
**Credits:** 1  
**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

**Code:** 044510  
**Credits:** 1  
**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

**Code:** 047220  
**Credits:** 1  
**Grades:** 11, 12  
**Code:** W  
**Prerequisite:** Algebra II (may be taken concurrently)

This course is the 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; 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

**Code:** 047221  
**Credits:** 1  
**Grades:** 12  
**Code:** W  
**Prerequisite:** AP Physics 1: Algebra-Based

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**
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.

**APPLIED CHEMISTRY**
049964  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.

**APPLIED CHEMISTRY (INDIVIDUALIZED)**
04996 V, W, or X  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 IEP Committee and the development of an Individualized Education Program (IEP).

**BIOLOGY (HONORS)**
042510  1 credit  Grade 10  Codes: EOC, W
**Prerequisite: Earth and Space Science**
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, evaluating data) are emphasized.

**BIOLOGY (A LEVEL)**
042511  1 credit  Grade 10  Code: EOC
**Prerequisite: Earth and Space Science**
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, W, or X  1 credit  Grade 10  Code: EOC
**Prerequisite: Earth and Space Science**
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 IEP Committee and the development of an Individualized Education Program (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 (GENERAL)
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.

EARTH AND SPACE SCIENCE (HONORS)
041510 1 credit Grade 9
Code: W
This course provides an in-depth investigation of earth and its place in the universe, with a special emphasis on open-ended laboratory investigations and an individual science project. Higher level process skills such as analyzing, synthesizing, and evaluating data will be emphasized.

EARTH AND SPACE SCIENCE (A LEVEL)
041511 1 credit Grade 9
This course provides an investigation of earth and its place in the universe and emphasizes an interpretive method of investigation utilizing process skills such as organizing, analyzing, and graphing. Class activities include numerous laboratory exercises.

EARTH AND SPACE SCIENCE (INDIVIDUALIZED)
04981V, W, or X 1 credit Grade 9
This course develops each student’s information and problem solving skills through activities and experiences in the areas of geology, astronomy, meteorology, and oceanography. There will also be emphasis on relating the content of earth and space science to the everyday life experiences of the students. This course is available to students upon recommendation of the IEP committee and the development of an Individualized Education Program (IEP).

INTRODUCTION TO BIOTECHNOLOGY
04831T or U ½ credit Grades 11, 12
This course introduces students to the field of biotechnology. Students will gain an increased understanding, skills, and exposure to concepts in biotechnology through hands-on laboratory experience, problem-solving situations and applications of concepts and procedures to real-world dilemmas. Techniques will include recombinant DNA technologies, gel electrophoresis, PCR amplification, and protein analysis. The application of these techniques in the fields of medicine and health, agriculture and food, and the environment will be explored.

INTRODUCTION TO ANATOMY AND PHYSIOLOGY
04821T or U ½ 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.

INTRODUCTION TO ENVIRONMENTAL SCIENCE
044611 1 credit Grades 11, 12
Code: EOC
Prerequisite: Biology and a maximum score of 399 on the MSDE HSA
This course develops a full and complete understanding of the basic concepts of biology in preparation for MSDE HSA. Students will investigate how these concepts may be applied to the study of the environment and ecology issues and relationships.

INTRODUCTION TO ENVIRONMENTAL SCIENCE (INDIVIDUALIZED)
04461V, W, or X 1 credit Grades 11, 12
Code: EOC
Prerequisite: Biology and a maximum score of 399 on the MSDE HSA
This course develops in each student a full and complete understanding of the basic concepts of biology in preparation for MSDE HSA. Students will investigate how these concepts may be applied to the study of the environment and ecology issues and relationships. This course is available to students upon recommendation of the IEP Committee and the development of an Individualized Education Program (IEP).
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. Two 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 EUROPEAN HISTORY**

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<tr>
<td>027120</td>
<td>1</td>
<td>Grades 11, 12</td>
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This year-long 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, including summer assignments. This course is an elective and will not satisfy the requirement for World History.

**ADVANCED PLACEMENT HUMAN GEOGRAPHY**

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<td>022560</td>
<td>1</td>
<td>Grades 10, 11, 12</td>
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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, including summer assignments.

**ADVANCED PLACEMENT MICROECONOMICS**

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<td>02601T or U</td>
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<td>Grades 11, 12</td>
<td>W</td>
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<tr>
<td>026010</td>
<td>1</td>
<td>Grades 11, 12</td>
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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, including summer assignments.

**ADVANCED PLACEMENT MACROECONOMICS**

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<td>02602T or U</td>
<td>½</td>
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<td>W</td>
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<tr>
<td>026020</td>
<td>1</td>
<td>Grades 11, 12</td>
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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, including 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. External independent reading and research are required, including summer assignments.

ADVANCED PLACEMENT GOVERNMENT AND POLITICS: UNITED STATES
02102T or U ½ credit  Grades 11, 12  Code: W
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, including summer assignments.

ADVANCED PLACEMENT GOVERNMENT AND POLITICS: COMPARATIVE
02103T or U ½ credit  Grades 11, 12  Code: W
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, including 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, including 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, including summer assignments. This course fulfills the world history requirement.

AFRICAN HISTORY
02161T or U ½ credit  Grades 11, 12
This course provides students with an in-depth study of the history and culture of Africa and African peoples. 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. As an upper level social science elective, 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.

AFRICAN AMERICAN HISTORY
02171T or U ½ credit  Grades 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. As an upper level social science elective, 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.
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.

APPLIED ECONOMICS
02402T or U  ½ credit  Grades 11, 12
This course is designed to actively engage students in the study of economics. Students will study economic concepts, principles, and institutions and have the opportunity to exchange ideas with a consultant from the business community. In addition, students have the opportunity to create and run a business that will develop and market a product.

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.

INTERNATIONAL RELATIONS
02262T or U  ½ 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.

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)**

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<tbody>
<tr>
<td>02981V, W, or X</td>
<td>1 credit</td>
<td>Grade 9</td>
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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 IEP Committee and development of an Individualized Education Program (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)**

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<thead>
<tr>
<th>Code</th>
<th>Grade</th>
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<tbody>
<tr>
<td>021010</td>
<td>1 credit</td>
<td>Grade 10</td>
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</table>

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)**

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<tbody>
<tr>
<td>021011</td>
<td>Grade 10</td>
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</table>

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)**

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<th>Code</th>
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<tbody>
<tr>
<td>02983V, W, or X</td>
<td>Grade 10</td>
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</table>

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 IEP Committee and the development of an Individualized Education Program (IEP).

**WORLD HISTORY (HONORS)**

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<tr>
<th>Code</th>
<th>Grade</th>
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<tbody>
<tr>
<td>021510</td>
<td>1 credit</td>
<td>Grade 11</td>
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</table>

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)**

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<tbody>
<tr>
<td>021511</td>
<td>Grade 11</td>
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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)**

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<tbody>
<tr>
<td>02985V, W, or X</td>
<td>Grade 11</td>
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</table>

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 IEP Committee and the development of an Individualized Education Program (IEP).

**YOU AND THE LAW**

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<th>Code</th>
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<tr>
<td>02254T or U</td>
<td>½ credit</td>
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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.
STETHEM EDUCATIONAL CENTER CAREER EXPLORATION PROGRAMS

The Robert D. Stethem Educational Center Career and Technology Program (CTP) programs offer a number of career-related courses for students exploring post-secondary options. These CTE courses are designed to earn a national certification in a specific career field.

CTP students attend their zoned high schools for all core classes and are transported by bus to and from the Stethem Center for this half-day program. Because not all CTP 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 have:

- Earned a minimum of 12 credits,
- Completed at least two of the three math courses required for graduation, and
- Met Maryland State Department of Education High School Assessment/PARCC requirements for earning a diploma.

CAREER AND TECHNOLOGY EDUCATION COMPLETER PROGRAMS

CAREER CLUSTER – TRANSPORTATION TECHNOLOGIES

AUTOMOTIVE TECHNICIAN

The Automotive Technician Program incorporates the Automotive Service Excellence (ASE) program certification standards and the National Automotive Technicians Education Foundation (NATEF) task lists. Students are required to take the National Automotive Student Skills Standards Assessment (NA3SA) technical skills assessments for Suspension and Steering, Brakes, Electrical/Electronic Systems and Engine Performance. The program prepares students for further education and careers in automotive technology. The program consists of four courses.

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

SUSPENSION AND STEERING

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<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>170114</td>
<td>1</td>
<td>11</td>
<td>CTP</td>
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</table>

Prerequisite: Concurrently enrolled in Brakes

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.

BRAKES

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<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>170124</td>
<td>1</td>
<td>11</td>
<td>CTP</td>
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</table>

Prerequisite: Concurrently enrolled in Suspension and Steering

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.
ELECTRICAL/ELECTRONIC SYSTEMS
170134 2 credits Grade 12 Code: CTC
Prerequisite: Suspension & Steering and Brakes, concurrently enrolled in Engine Performance
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.

ENGINE PERFORMANCE
170144 1 credit Grade 12 Code: CTP
Prerequisite: Suspension & Steering and Brakes, concurrently enrolled in Electrical/Electronic Systems
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.

CAREER CLUSTER – CONSTRUCTION AND DEVELOPMENT
HEATING, VENTILATING, 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, Ventilating, and Air Conditioning.

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

FOUNDATIONS OF BUILDING AND CONSTRUCTION TECHNOLOGY (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.

HEATING, VENTILATING, 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.

HEATING, VENTILATING, AND AIR CONDITIONING (HVAC LEVEL II)
170106 2 credits Grade 12 Code: CTP
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.
CAREER CLUSTER – ENVIRONMENTAL, AGRICULTURAL, AND NATURAL RESOURCES
HORTICULTURAL SERVICES
The Horticulture Program is based upon the content of the Certified Professional Horticulturist (CPH) certification that is used by the Maryland “Green Industry.” It consists of four courses that include rigorous academics, broad cluster knowledge and skills, as well as technical knowledge related to the horticulture industry. Hours dedicated to the internship during a student’s junior and senior year may be used as industry hours toward the Professional Horticulturalist Certification.

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

FOUNDATIONS OF HORTICULTURE
170066 1 credit Grade 11 Code: CTP
Prerequisite: Concurrently enrolled in Plant Propagation
This course provides the student with the foundation, knowledge and skills necessary to pursue careers in the horticultural industry. Through theory, instruction and hands-on experiences, students are introduced to the concepts of plant growth and development, the use of plants in the landscape settings, pest management, and weed control.

PLANT PROPAGATION
170067 1 credit Grade 11 Code: CTP
Prerequisite: Concurrently enrolled in Foundations of Horticulture
Students will build on prior knowledge of basic plant science by incorporating market research and product development as well as planning, producing, and selling greenhouse and nursery crops. Students will complete a business that includes production cost, pricing, marketing, display and the sale of plants.

LANDSCAPING DESIGN
170068 1 credit Grade 12 Code: CTC
Prerequisite: Foundations of Horticulture, Plant Propagation, and concurrently enrolled in Capstone Experience
Students will have the opportunity to prepare and implement landscape designs for a broad range of settings. Students will evaluate all aspects of the design process, including costs, and will study the horticultural and business practices required for entry level employment.

CAPSTONE EXPERIENCE
170069 1 credit Grade 12 Code: CTP
Prerequisite: Foundations of Horticulture, Plant Propagation and concurrently enrolled in Landscaping Design
Students may choose between two options: a field-based internship or dual-enrollment in a college-level horticulture course. Field-based internship option: Students will work with an employer-mentor from the horticulture industry and be guided by a work-based learning agreement developed in partnership with the employer, the instructor, and the student. Students will develop and maintain a portfolio documenting this experience. Dual-enrollment option: Students will enroll in a credit-bearing college-level horticulture course and successfully complete all course requirements including earning a passing grade. The course may be offered on the college campus or at the Stethem Educational Center. Participants in this option must meet all CCPS requirements for dual enrollment and pay all tuition costs and fees.

CAREER CLUSTER – ARTS, MEDIA AND COMMUNICATION
INTERACTIVE MEDIA PRODUCTION
The Interactive Media Production 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 three courses.

Required Courses: All three (3) 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 Multimedia Production
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 MULTI-MEDIA PRODUCTION
170324 1 credit Grade 11 Code: CTC
Prerequisite: Concurrently enrolled in Principles of Arts, Media and Communication
This course offers students opportunities to master media design and the interactive media production process. Students will advance their knowledge and skills through project planning and product development. Emphasis will be placed on group project development and individual portfolio development.

ADVANCED INTERACTIVE MULTI-MEDIA PRODUCTION
170334 2 credits Grade 12 Code: CTP
Prerequisite: Principles of Arts, Media, and Communication and Interactive Multimedia Production
This course provides students with 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. Emphasis will be placed on group project development and development of a layered portfolio.

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 Pharmacy Technician Certification Board (PTCB) exam. Students must be 18 years old and hold a high school diploma to sit for the exam.

Required Courses: All four (4) of these 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
In this course 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
Prerequisite: Biology and concurrently enrolled in Foundations of Medicine & Health Sciences and Chemistry
130920 1 credit Grade 11 Codes: CTP, W
In this course 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
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 will 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 exam.

ALLIED HEALTH INTERNSHIP
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.
GENERAL ELECTIVES AND FINE ART OFFERINGS

ART I
060514 1 credit Grades 11, 12 Code: FA
This course deals with 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. The student should gain an understanding of the visual arts as a part of his/her environment.

ART II
060524 1 credit Grades 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.

AUTOMOTIVE REPAIR
170064 1 credit Grades 11, 12 Elective
This course provides students with a working knowledge of engine diagnostics, auto mechanics, electrical systems, and interior and exterior maintenance.

SURVEY OF THE CONSTRUCTION TRADE
170214 1 credit Grades 11, 12 Elective
This course will provide an introduction to a variety of construction skills: safety, construction math, hand tools, power tools, blueprints, and basic rigging. Hands-on experiences are an integral part of this course.

CARPENTRY I
170224 1 credit Grade 12 Elective
Prerequisite: Survey of the Construction Trade
This course will offer students opportunities to master an understanding of wood building materials, fasteners, and adhesives, hand and power tools, floor systems, wall and ceiling framing, roof framing, windows and exterior doors.

CERAMICS I
069914 1 credit Grades 11, 12 Code: FA
Prerequisite: Art I or approval of instructor
This course is 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
This course provides students with more freedom to meet project requirements which will allow for the refinement of skills and development of individual creative style.

GRAPHIC DESIGN I
170044 1 credit Grades 11, 12 Elective
These courses assist students in developing the technical skills necessary to create artwork and design using computer programs. Course objectives include learning the fundamentals of design and applying design principals to the creation of commercial artwork.

GRAPHIC DESIGN II
170045 1 credit Grades 11, 12 Elective
These courses assist students in developing the technical skills necessary to create artwork and design using computer programs. Course objectives include learning the fundamentals of design and applying design principals to the creation of commercial artwork.
MULTI-MEDIA PRODUCTION I
015005 1 credit Grades 11, 12 Code: FA
Students will become competent in the use of video and editing equipment, both in and out of the classroom. The students will be introduced to the various types of multi-media 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.

MULTI-MEDIA PRODUCTION II
015006 1 credit Grades 11, 12 Code: FA
Prerequisite: Multi-Media Production I and permission of instructor
Students will master 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). They will also participate in the creation and production of film, weekly magazines, and remote broadcasts using computer-generated and digital multi-media equipment. The class will be a project-based course with students enhancing acquired knowledge and skills through hand-on work.

PHOTOGRAPHY I
069984 1 credit Grades 11, 12 Code: FA
Prerequisite: Art I or approval of instructor
Students will learn 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.

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.
TECHNOLOGY EDUCATION

Technology Education is an experienced based curriculum in which students study technology, its evolution, utilization, and significance. Included in this study will be 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**

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<td>130434</td>
<td>1</td>
<td>10, 11, 12</td>
<td>ATE</td>
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*Prerequisite: Foundations of Technology*

This course is a standards-based, technology and engineering course designed for upper-level 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.

**COMPUTER ASSISTED DRAFTING AND DESIGN (CADD)**

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<th>Course Code</th>
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<td>137083</td>
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*Prerequisite: Completion or concurrent enrollment in Algebra I*

This introductory course will provide the opportunity for students to understand basic mechanical drawing concepts through the use of computer-assisted design and drafting software. CADD is the foundation course for numerous technical and engineering career fields.

**DESIGNING TECHNOLOGY SOLUTIONS**

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<th>Course Code</th>
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<td>179040</td>
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<td>TE</td>
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</table>

*Prerequisite: Completion or concurrent enrollment in Algebra I*

In this course, students are introduced to engineering design and development through programming, software engineering and robotics technology. Students will explore and develop an understanding of technological issues and their influence on history. Through the study of energy and power, construction, manufacturing and communication, students will complete projects that enable them to develop software for authentic applications. Students interested in pursuing a career in computer science are encouraged to take this course.

**ENGINEERING DESIGN ATE**

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<tr>
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<td>ATE</td>
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</table>

*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.

**FOUNDATIONS OF TECHNOLOGY**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Grades</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>130414</td>
<td>1</td>
<td>9, 10, 11, 12</td>
<td>TE</td>
</tr>
</tbody>
</table>

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.

**INTRODUCTION TO ENGINEERING DESIGN**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Grades</th>
<th>Codes</th>
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</thead>
<tbody>
<tr>
<td>130740</td>
<td>1</td>
<td>9, 10</td>
<td>TE, CC, CTP</td>
</tr>
</tbody>
</table>

*Prerequisite: Completion or current enrollment in Algebra I*

This course allows students to work 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. They complete an in-depth study of the engineering design process, applying math, science, and engineering standards to hands-on projects.
WORLD LANGUAGES

Charles County Public Schools offers French, Spanish, German, and Latin in response to the community's growing demand for World Language education. Instruction in the modern languages emphasizes four skills: listening, speaking, reading, and writing. Latin, a classical language, focuses on reading and writing. The World Language Program does not provide placement testing as a means to place out of a level, skip a level or receive credit for a level without having taken the course. 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 Gallic 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 not satisfy the World Language graduation requirement nor can it 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.
LATIN I  
052014  1 credit  Grades 9, 10, 11, 12  
This course is an introduction to the study of the Latin language. Stress is placed upon linguistic structures and cognates. Latin components are used to develop vocabulary in both Latin and English. Students will learn to read Latin and write simple sentences. Brief narratives on Roman history and mythology serve for analysis of language structures and punctuation.

LATIN II  
052024  1 credit  Grades 10, 11, 12  
**Prerequisite: Latin I**  
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.

LATIN III (HONORS)  
052035  1 credit  Grades 11, 12  
**Code: W**  
**Prerequisite: Latin II**  
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.

LATIN IV (HONORS)  
052044  1 credit  Grade 12  
**Code: W**  
**Prerequisite: Latin III**  
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.

SPANISH I  
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.

SPANISH II  
051524  1 credit  Grades 9, 10, 11, 12  
**Prerequisite: Spanish I**  
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 done in Spanish. Various media remain an integral part of the program in order to present an authentic image of the Spanish-speaking world today.

SPANISH III (HONORS)  
051535  1 credit  Grades 10, 11, 12  
**Code: W**  
**Prerequisite: Spanish II**  
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 participating institutions for students who enroll there after graduation.

CAPSTONE EXPERIENCE: This culminating course in a career and technology 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 Technology Education (CTE) Program of Study. This course represents the student's intent to be a CTE program completer.

CSS (Course Selection Sheet): 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.

ELL/ESOL (English Language 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.

IEP (Individualized Education Program): The IEP is the educational program specifically designed for a student with special education needs.

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.

MSDE (Maryland State Department of Education): The governing agency in the state of Maryland that oversees the operation of public schools serving children in Pre-K through grade 12.

NCAA (National Collegiate Athletic Association): 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 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. Examples of courses meeting this requirement include Algebra II, Trigonometry, Pre-calculus, Calculus and successor courses, Statistics, and College Algebra. An important feature of any such course is that it utilizes algebra in a substantive way so the student does not lose the algebraic and numerical skills achieved in earlier courses.

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.

**CHARLES COUNTY PUBLIC SCHOOLS GRADUATION STATUS REPORT**

You should use this form to check off the credits you have earned and the credits you are working on now. This will help you select your courses for next year. If you have any questions about graduation requirements or how to use this chart, please make an appointment with your counselor as soon as possible.

**High School Graduation Requirements – 23 Credits**

This chart is intended for students entering high school in fall 2013 and beyond. Students who entered high school prior to fall 2013 should see their high school counselor for the correct chart.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
<th>Options</th>
<th>Choose ONE of the following options</th>
<th>Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>English – 4 credits</td>
<td></td>
<td>❑ English I</td>
<td>❑ 2 credits of World Language and electives</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>❑ English II</td>
<td>❑ 2 credits of Advanced Technology and electives</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>❑ English III</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>❑ English IV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social Studies – 3 credits</td>
<td></td>
<td>❑ LSN Government</td>
<td>OR</td>
<td></td>
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<td></td>
<td></td>
<td>❑ US History</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>❑ World History</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Math – 3 credits</td>
<td></td>
<td>❑ Algebra</td>
<td>❑ Career and Technology</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>❑ Algebra (2)</td>
<td>❑ Education Completer</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>❑ Geometry</td>
<td>❑ Program and electives</td>
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<tr>
<td>Science – 3 credits</td>
<td></td>
<td>❑ Earth Science</td>
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<td></td>
<td></td>
<td>❑ Biology</td>
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<tr>
<td></td>
<td></td>
<td>❑ Lab sciences (2)</td>
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<tr>
<td>P. E. – ½ credit</td>
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<td>❑ P.E.</td>
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<tr>
<td>Health – ½ credit</td>
<td></td>
<td>❑ Health</td>
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<tr>
<td>Fine Art – 1 credit</td>
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<tr>
<td>Technology – 1 credit</td>
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<tr>
<td>Financial Literacy - 1 credit</td>
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<tr>
<td>State Assessments</td>
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<td>❑ Algebra I</td>
<td>❑ ALL students must earn a minimum of 23 credits to earn a diploma. The number of electives needed will vary based upon the option chosen above.</td>
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<tr>
<td></td>
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<td>❑ Algebra II</td>
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<td>❑ Biology</td>
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<td>❑ Gov’t</td>
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</tr>
</tbody>
</table>
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 Technology Program; CTC = CTP Concentrator Course; EOC = End-of-Course Assessment; FA = Fine Arts; TE = Technology Education; W = Weighted