EDUCATIONAL PLANNING GUIDE

CALVERT COUNTY PUBLIC SCHOOLS

HIGH SCHOOL 2017-2018

Calvert County High Schools

Calvert High School
520 Fox Run Blvd.
Prince Frederick, MD 20678
Mr. Steven Lucas, *Principal*
Main Office: 410-535-7330 Guidance Office: 410-535-7338

Huntingtown High School
4125 N. Solomons Island Road
Huntingtown, MD 20639
Mr. Rick Weber, *Principal*
Main Office: 443-550-8810 Guidance Office: 443-550-8816

Northern High School
2950 Chaneyville Road
Owings, MD 20736
Mr. Stephen Williams, *Principal*
Main Office: 410-257-1519 Guidance Office: 410-257-1528

Patuxent High School
12485 Southern Connector Blvd.
Lusby, MD 20657
Ms. Sabrina Bergen, *Principal*
Main Office: 410-535-7865 Guidance Office: 410-535-7871

Calvert County Middle Schools

Calvert Middle School
655 Chesapeake Blvd.
Prince Frederick, MD 20678
Mr. Zachary Seawell, *Principal*
Main Office: 443-550-8970 Guidance Office: 443-550-8972

Mill Creek Middle School
12200 Southern Connector Blvd.
Lusby, MD 20657
Ms. Rebecca Bowen, *Principal*
Main Office:443-550-9190 Guidance Office: 443-550-9203

Northern Middle School
2954 Chaneyville Road
Owings, MD 20736
Mr. Jaime Webster, *Principal*
Main Office: 410-257-1622 Guidance Office: 410-257-1629

Plum Point Middle School
1475 Plum Point Road
Huntingtown, MD 20639
Ms. Kelley Adams, *Principal*
Main Office: 443-550-9170 Guidance Office: 443-550-9175

Southern Middle School
9615 H. G. Trueman Road
Lusby, MD 20657
Ms. Mandy Blackmon, *Principal*
Main Office: 410-535-7877 Guidance Office: 410-535-7881

Windy Hill Middle School
9560 Boyds Turn Road
Owings, MD 20736
Mr. James Kurtz, *Principal*
Main Office: 410-257-1560 Guidance Office: 410-257-1562

Calvert County Special Schools & Centers

Career and Technology Academy
330 Dorsey Road
Prince Frederick, MD 20678
Mr. Mark Wilding, *Principal*
Main Office: 410-535-7450 Guidance Office: 410-535-7463

Calvert Country School
1350 Dares Beach Road
Prince Frederick, MD 20678
Ms. Marcie Hough, *Principal*
Main Office: 410-535-7300

The cover was designed by Noah Korzec, HHS senior and also a level II Graphic Arts student at the CTA.

Board of Education of Calvert County

Pamela L. Cousins
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Dr. Daniel D. Curry, Ed.D.
Superintendent of Schools

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Calvert County Public Schools
Divisions of Instruction & Student Services • 410-535-1700
1305 Dares Beach Road, Prince Frederick, MD 20678

Light the Future
Calvert County Public Schools
Daniel D. Curry, Ed.D.
Superintendent of Schools

1305 Dares Beach Road
Prince Frederick, MD 20678
Telephone: (410) 535-1700
(301) 855-1834
FAX: (410) 535-7298
TDD: (410) 535-6852
www.calvertcounty.education

February 2017

Dear Calvert County Public School Students and Families:

Ben Franklin said, “By failing to prepare, you are preparing to fail.” Since we are in the business of preparing students to succeed, we provide The Educational Planning Guide to help with that task. Used well, this guide will help each student prepare for success. I urge students and parents to work with school faculty to review information in this book in preparation for creating the students’ personal plan of study.

The personal plan of study, unique to each student, outlines courses that align with future education and career goals. Each year, you will revisit the student’s personal plan of study. When students see the relevance of school coursework to what they aspire to in their future, they are more apt to take school more seriously and enroll in more rigorous courses. Remember, course selection is very important and schedule changes can be difficult.

Students rank parents as the most influential people in their lives. Challenge your children to set high standards, select courses and school activities which directly help them achieve personal and career goals, work hard to achieve these goals and attend classes daily. Embrace the power of your influence and genuinely engage in educational pursuits with your children.

Together, as a team, we will continue to provide excellent opportunities for all students. The employees of Calvert County Public Schools are here to serve you and welcome your questions, comments and suggestions.

Sincerely,

Daniel D. Curry, Ed.D.
Superintendent of Schools

Pamela L. Cousins, President • Tracy H. McGuire, Vice President
Dawn C. Balinski • Kelly D. McConkey • William J. Phalen, Sr. • Lucie O. Roach, Student Member

Calvert County Public Schools does not discriminate on the basis of race, color, religion, sex, age, ancestry or national origin, familial status, marital status, physical or mental disability, sexual orientation, gender identity and expression, or genetic information or age in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups. The following persons have been designated to handle inquiries regarding the non-discrimination policies:

- Director of Student Services
- Director of Human Resources
  410-535-1700

For further information on notice of non-discrimination, visit the Office of Civil Rights Complaint Assessment System at: http://ocrcas.ed.gov or call 1-800-421-3481.

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Anti-sexual, Anti-racial and Anti-disability Harassment Statement
Discrimination can manifest itself in behaviors such as bullying, harassment, or intimidation of individuals.

Calvert County Public Schools does not tolerate any form of harassment including, but not limited to, sexual, racial, or disability. Any individual (student, employee, or community member) who believes that he or she has been subjected to any form of harassment is encouraged to report the allegation of harassment. Students, parents and community members may report allegations of harassment to:

Ms. Kimberly Roof
Director of Student Services
Calvert County Public Schools
1305 Dares Beach Road
Prince Frederick, MD 20678

Employees may report allegations of harassment to:
Ms. Laveeta Hutchins
Director of Human Resources
Calvert County Public Schools
1305 Dares Beach Road
Prince Frederick, MD 20678

Calvert County Public Schools is committed to conducting a prompt investigation for any allegation of harassment. If harassment has occurred, the individual will be disciplined promptly. Disciplinary actions for students found to have engaged in any form of harassment may result in suspension or expulsion. Disciplinary actions for employees found to have engaged in any form of harassment may result in suspension or termination.

Calvert County Public Schools encourages all students, parents, employees, and community members to work together to prevent any form of harassment.

For further information on notice of non-discrimination, visit the Office of Civil Rights Complaint Assessment System at: http://ocrcas.ed.gov or call 1-800-421-3481.

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Graduation Requirements

Guidelines for Meeting Graduation Requirements

All students must schedule a program of classes that leads to completion of credit requirements and must follow at least one of the two career pathways: Career Technology Education (CTE) and/or College Prep. The guide that follows may assist students and their parent(s) in planning a four-year program of high school studies. (An example of the Four-Year Plan has been included at the end of this document for students entering high school in 2017.) Requirements are noted and other courses are suggested.

Students should first review the requirements for graduation. A frank assessment should be made of student abilities, needs, and curricular and extracurricular interests before pursuing one of the pathways. Students should also learn the specific entrance requirements of those universities, colleges, business schools, technical schools or other post-secondary institutions to which they might apply for admission. Finally, students should consult with their teachers and school counselors for assistance in selecting appropriate courses.

NOTE: Calvert County Public Schools may not offer all electives during a particular school year. When elective courses do not reach a required minimum enrollment at a school, they may be cancelled.

To earn the Maryland High School Diploma in Calvert County, a student must fulfill applicable Maryland State Board of Education and Calvert County Public School requirements. These requirements include successful completion of particular courses, passing high school assessments, and the completion of service learning. In addition, students must satisfactorily complete 4 years of approved study beyond the eighth grade unless one of the alternatives to the 4-year enrollment requirement is satisfied. *(See Alternatives to 4-Year Enrollment Requirement in a Public High School on page 12 of this guide).*

The Maryland High School Certificate of Program Completion shall be awarded only to a student with disabilities who cannot meet the requirements for the Maryland High School Diploma but who meets other specified standards.

More specific information may be obtained from a teacher, school counselor, and/or principal.

CALVERT COUNTY PUBLIC SCHOOLS GRADUATION REQUIREMENTS

To be awarded a diploma, a student shall be enrolled in a Maryland public school system and have earned a minimum of 23 ½ credits that include the following:

<table>
<tr><th>Subject Area</th><th colspan="2">Specific Credit Requirements</th><th>Maryland high school assessments</th></tr>
<tr><td>English</td><td colspan="2">4 credits</td><td rowspan="4">Students must meet the Maryland State Department of Education’s end of course requirements.</td></tr>
<tr><td>Mathematics

*see statement below</td><td colspan="2">4 credits
• 1 in algebra/data analysis
• 1 in geometry
• 2 other</td></tr>
<tr><td>Science</td><td>Entered HS 2012-2016

3 credits
• 1 in biology
• 2 that must include laboratory experience in any or all of the following areas: earth science, life science, physical science</td><td>Entering HS 2017 and beyond

3 Credits of NGSS* Science
• Life Science
• Physical Science
• Earth Science</td></tr>
<tr><td>Social Studies</td><td colspan="2">3 credits
• 1 in U.S. history
• 1 in world history
• 1 in local, state, national government</td></tr>
<tr><td colspan="4">Other Requirements</td></tr>
<tr><td>Fine Arts</td><td colspan="3">1 credit</td></tr>
<tr><td>Physical Education</td><td colspan="3">½ credit</td></tr>
<tr><td>Health</td><td colspan="3">½ credit</td></tr>
<tr><td>Technology Education</td><td colspan="3">1 credit</td></tr>
<tr><td>Financial Literacy</td><td colspan="3">½ credit – this requirement may be fulfilled by taking either the ½ credit course called Financial Literacy <u>or</u> the one credit course called Principles of Finance.</td></tr>
<tr><td>Pathway Requirements</td><td colspan="3">College Prep: 2 credits in a World Language, ASL, <u>or</u> advanced technology education <u>and</u> 3 credits in electives
<u>OR</u>
CTE: 4 credits by successfully completing a State-approved career & technology education program <u>and</u> 1 credit in an elective</td></tr>
<tr><td>Local Academic Requirement to Promote College & Career Readiness*

*Students who complete both a CTE program and the college prep program meet this local requirement.</td><td colspan="3">1 additional credit beyond pathway requirements in one of these categories:
• Advanced Placement
• Career Technical Education (Career and Technology Academy) – level II
• Curriculum for Agricultural Science Education
• English
• ESOL
• World Language
• Math
• Naval science – level III or higher
• Science
• Social studies
• Project Lead The Way
• Teacher Academy of Maryland
• Fine Arts (Adv. Dance, Studio Art, Chamber Choir, Wind Ensemble, Adv. Orchestra, Adv. Acting 3, Adv. Photography)</td></tr>
<tr><td colspan="4">Students must also meet attendance and service learning requirements.
*Students entering grade 9 in 2014 or after are required to take a math course each year they are enrolled in high school.</td></tr>
<tr><td colspan="4">* The Next Generation Science Standards (NGSS) states that a student should select a balance between life, physical, and earth science courses.</td></tr>
</table>

Technology Education Requirement Courses

The successful completion of one of the following courses will fulfill the one credit graduation requirement in Technology Education:

8000	Foundations of Technology
8000o	Foundations of Technology **Online**
8005	Introduction to Engineering Design
8006	Principles of Engineering
3505	Foundations of Computer Science
3505o	Foundations of Computer Science **Online**
3506	AP Computer Science Principles

Fine Arts Requirement Courses

The successful completion of one of the following courses will fulfill the one credit graduation requirement in Fine Arts:

6000	Dance I	6340	Chamber Chorus
6010	Dance II	6350	Music Theatre
6020	Advanced Dance	6370o	Music Appreciation (Online)
6100	Art / Design	6060	Concert Chorus
6110	Drawing & Paint	6400	Concert Band
6120	Advanced Drawing & Paint	6410	Symphonic Band
6130	Sculpture I	6420	Wind Ensemble
6135	Sculpture II	6430	Jazz Ensemble
6140	Ceramics I	6440	String Orchestra
6150	Ceramics II	6445	Adv. Strings Orchestra
6180	Photography	6450	Brass Ensembles
6190	Advanced Photo	6470	Percussion Ensembles
6200	Studio Art	6475	Symphony Orchestra
6209	AP Studio Drawing	6500	Theatre I
6219	AP Studio – 2D Design	6510	Theatre II
6229	AP Studio – 3D Design	6520	Advanced Acting I
6300	Music Theory	6530	Advanced Acting II
6309	AP Music Theory	6540	Advanced Acting III
6310	Chorale	6550	Stagecraft
6320	Chorus I		

Students may also fulfill their Fine Arts requirement by taking two (2) semesters of the following course: 6480S Guitar

Academic Awards

Superintendent's Scholastic Recognition Award
Annually the Calvert County Board of Education and the Superintendent of Schools award pins and certificates in recognition of scholastic achievement. To qualify for selection in a particular year, a student must earn an unweighted grade no lower than 90% for each course of each marking period.

Honor Roll Criteria
A student must earn a grade point average of 80% or higher with no grade less than 70% in order to be placed on the Honor Roll for each marking period. Students must be enrolled in a minimum of four high school credits to be eligible for honor roll. Students who are enrolled in Advanced Placement courses will have their weighted grade factored into this award.

High Honor Roll Criteria
A student must earn a grade point average of 90% or higher with no grade less than 90% in order to be placed on the High Honor Roll for each marking period. Students must be enrolled in a minimum of four high school credits to be eligible for high honor roll. Students who are enrolled in Advanced Placement courses will have their weighted grade factored into this award.

Graduating with Distinction
In order to honor graduating students for meeting a high standard of academic achievement, beginning with the Class of 2018, an additional level of recognition will be added. Seniors earning a Cumulative Grade Point average of 3.9 or above, will be recognized as "Graduates with Distinction." Please contact your child's school counselor for additional information.

Policy on Academic Eligibility for Extra-Curricular Activities

Calvert County Public Schools policy #3352 pertains to high school and middle school academic eligibility for extra-curricular activities. This includes all activities that are sponsored by a staff member or a designee appointed by the principal, that meet a minimum of ten times each school year and that are not an extension of a curricular program.

A student must maintain a 70% grade point average (GPA), with no more than one failing grade (less than 60%). Students who fail a course worth two or more credits will be deemed ineligible. Final grades determine fall eligibility. Quarterly grades determine winter and spring eligibility.

Summer Reading Requirements

Students are required to complete a summer reading assignment. Please refer to the courses in which your child will be enrolled for the upcoming year for specific guidelines.

Field Trips

Field trips designed to enhance instructional programs result in effective learning experiences. Students also benefit from observing or participating in events or activities that occur away from the school. Costs associated with these field trips include transportation, substitute teachers, and admission fees. For most field trips, these costs will be paid by students. In the event that a field trip fee places an undue burden on a family, parents and students should feel free to contact the principal.

Guidelines for Scheduling

It is the responsibility of the student to carefully evaluate and select courses. Students should obtain help from appropriate teachers, school counselors and/or administrators. Parental approval of course selections is required for all students.

The High School Organization

CCPS high schools have school days that are divided into seven class periods and a lunch period. Students are expected to schedule a full program of classes each year. Students are not permitted to audit classes. All courses must be taken for credit. The State of Maryland requires that all students take end of course assessments for graduation in Algebra, English 10, Science, and Government.

CCPS offers the following levels of instruction:

Standard Classes

Classes are designed for students on or above grade level. Assignments are challenging. Students will have frequent writing and reading requirements. They will be expected to fully participate in group activities in the classroom. Teachers frequently assess student mastery of content, and individual/groups of students may receive unique assignments to either enrich them or to address difficulties. Classes focus on both the essential elements of the curriculum and other related, significant areas of content knowledge.

Honors Classes

Honors classes provide an intensive and accelerated delivery of curricular content. Reading assignments are typically more frequent and of a more complex wide-ranging nature than standard level classes. Writing assignments and discussions are frequent, and there is an expectation that students actively participate in the class both as individuals and as groups of learners. Admission to Honors is, in general, limited to students who have a numerical grade of 80% or higher in the pertinent subject matter area and in any other prerequisite courses or the recommendation of the most recent instructor in that academic discipline.

Advanced Placement (AP)

While not considered a separate instructional cluster, AP courses are taught at the college level. They afford advanced ninth, tenth, eleventh, and twelfth grade students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level. College credit is typically predicated on the attainment of a specific score on national standardized examination and attendance at one of the many colleges and universities that recognize students' participation in the College Board's Advanced Placement Program. Students who complete an advanced placement course shall receive weighted credit in their grade point average.

Two courses, 1040S Honors Writing for Advanced Courses and College and 2590S Honors Introduction to Philosophical Thought were designed to assist students entering AP courses. Ninth grade students who meet the requirements will be given the opportunity to take AP World History.

Current Advanced Placement Course Offerings

1309	AP English Language and Composition	3519	AP Computer Science Coding
1309o	AP English Language and Composition **Online**	4209	AP Biology
1409	AP English Literature and Composition	3429	AP Statistics
1409o	AP English Literature and Composition **Online**	3429o	AP Statistics **Online**
1759	AP French Language and Culture	4309	AP Chemistry
1859	AP Spanish Language and Culture	4419	AP Physics C: Mechanics
2209	AP American History	4429	AP Physics: Electricity & Magnetism
2309	AP United States Government and Politics	4439	AP Physics 1
2509	AP World History	4449	AP Physics 2
2519	AP European History	4509	AP Environmental Science
2549	AP Psychology	5179	AP Microeconomics
2549o	AP Psychology **Online**	6209	AP Studio-Drawing
3409	AP Calculus 1	6219	AP Studio-2D Design
3409o	AP Calculus 1 **Online**	6229	AP Studio-3D Design
3419	AP Calculus 2	6309	AP Music Theory
3506	AP Computer Science Principles		

Seminar Period for Advanced Placement Students
Students may elect to enroll in a seminar period if they are taking 3 or more of the above Advanced Placement courses (not including science labs) in the same year. This non-credit course allows students who are encountering college-level workloads to meet as a group for in-school study or research time. Approval from the principal and counselor is required.

Freshman Seminar
Freshman Seminar is a course designed to promote a successful transition between middle school and high school. The course provides students with opportunities for academic enrichment and assistance, as well as the chance to improve organizational and communication skills. Additionally, a portion of the course is dedicated to a discussion of college and career choices. This is a pass/fail course and is not calculated into the grade point average.

Grade Level Requirements
The minimum credit requirements for placement in each high school grade are as follows. Students who have earned:

- fewer than 5 credits will be placed in Grade 9;
- between 5 and 10 credits, including one required credit in English, will be placed in Grade 10;
- between 11 and 16 credits, including two required credits in English, will be placed in Grade 11;
- 17 or more credits, including three required credits in English, will be placed in Grade 12.

High School Credit
In the Code of Maryland Regulations, Title 13A, 03.02.02, a unit of credit is defined as "successful demonstration of a specified unit of study."

The Calvert County Public School System offers .5 high school unit of credit for one course, meeting at least 43 minutes daily for a semester.

Guidelines for Scheduling

Special Education
To conform with Federal and State laws, special education services are provided to students identified as having an educational disability and in need of specially designed instruction. These students are educated according to their Individualized Education Program (IEP), and to the maximum extent appropriate, with students who are not disabled. IEPs may also include related services such as speech, occupational or physical therapy, audiology, counseling and/or other services.

Interventions
Interventions are provided to students who have not achieved grade level standards. The goal of these interventions is to help students who are not making satisfactory progress return to the path of adequate development. Intervention supports are delivered by trained staff during and outside of the school day, and may occur in the regular and/or special education classroom or in small group settings. Student enrollment in interventions is based upon the results of assessments and other data about classroom performance such as Maryland high school assessments, CCPS benchmarks, and classroom assignments. This data is used to place students appropriately. Interventions may be short or long-term in duration.

English for Speakers of Other Languages (ESOL)
To conform with Federal and State Laws, ESOL services are provided to students identified as English Learners. The ESOL program supports English Learners as they develop academic language proficiency in English and helps prepare them to meet the challenging academic achievement standards of all Maryland students. The regional program is located at Calvert High School.

Composition of Grades
Calvert County Public Schools recognizes that a student's grade for a course should reflect what the student knows and is able to do. To accomplish this, each assignment that is recorded in a teacher's gradebook will be identified as either a Product Assignment or a Process Assignment. Calvert County Public Schools defines these terms as follows:

Product Assignments – These assessments of learning are assignments and assessments given at a point in time when the teacher expects the students to have mastered the material. These could include—but are not limited to—district assessments, unit assessments, mid-unit assessments, benchmarks, quizzes, performance tasks, projects, term papers, essays, and presentations.

Process Assignments – These assessments of learning are assignments and assessments given at a point in time when the students are progressing towards mastery. Process assignments should vary in type. These could include—but are not limited to— independent practice on daily assignments, homework, brief progress checks, warm-ups, exit tickets, and reflections.

A student's grade in a course is based on a minimum of 70% product and a maximum of 30% process grades.

Final Examinations

Teachers are required to administer district or teacher generated final examinations in each class in grades nine through twelve. The examination shall count twenty percent (20%) of the student's final grade. In some courses, components of the exam may be completed at intervals throughout the year as specified by the content area supervisor.

Courses that Meet for One Semester

Courses that meet for only one semester increase the opportunities students have to pursue interests and meet academic requirements. Calvert County Public Schools will offer a limited number of courses for ½ of a credit during the school year. The number of students that enroll in a course will determine when a course is offered. If many students enroll, a course may run in both the fall and the spring semesters. If fewer students enroll, a course will be scheduled only in the fall or the spring. The following semesterized courses will be offered next year:

1010S	College Entrance Exams Preparation (11th Grade)	5230So	Financial Literacy: Money Management **Online**
1015S	College Entrance Exams Preparation (12th Grade)	5240S	Computer Keyboarding for College and Careers
1050S	Strategies for Self Determination	6480S	Guitar
1055S	Strategies for Daily Living	7005S	Fundamentals of Movement
1101S	Freshman Seminar	7010S	Health
1570S	Creative Writing	7010So	Health **Online**
1570So	Creative Writing **Online**	7020S	Team Sports
2530S	African American Studies	7025S	Team Sports II
2560S	Anthropology	7040S	Recreational Sports
2565S	Archeology	7045S	Recreational Sports II
2580S	Women's History	7050S	Weight Training and Physical Conditioning I
2590S	Honors Introduction to Philosophical Thought	7060S	Weight Training and Physical Conditioning II
2710S	Service Learning/Independent Study	7075S	Stretching and Toning
3420S	Introductory Statistics	7076S	Stretching and Toning II
3420So	Introductory Statistics **Online**	7080S	Aerobics
5230S	Financial Literacy: Money Management	7090S	Aerobics II

Alternatives to 4-Year Enrollment in a Public High School

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 alternatives shall be made available:

Option 1: Early Graduation
The student chooses to apply for a waiver of the fourth year of high school and earn a high school diploma by the end of grade 11. All 23½ credits, state mandated assessments, and student service learning requirements must be met prior to the start of the fourth year of high school, and the superintendent or designee must determine that the waiver is in the best interest of the student. To obtain more information on the early graduation option, students should meet with their school counselor. The deadline for submitting paperwork for early graduation is May 1 of the student's sophomore year.

Option 2: Early Admission to an Accredited College or Vocational/Technical School
The student chooses to be a full-time student at an accredited college or approved vocational, technical, or other post-secondary school rather than attend a fourth year of high school. The student must have met all state mandated assessments and student service learning requirements prior to the fourth year. The student must develop a curricular plan which assures that the content of the graduation "specified courses" fulfills the credit requirement and also meets the standards for graduation in the first year of post-secondary study. A written request by the student and parent must be approved by the principal first. Then the student and parent must send a letter asking for a waiver of the fourth year attendance requirement for approval by the superintendent of schools or designee, with the curricular plan, early admission acceptance letter and principal's approval attached. At the conclusion of a full year of study, students must submit a written request for the high school diploma to the superintendent or designee, together with a transcript or letter from the post-secondary school indicating that the student has successfully completed a full year of post-secondary school work.

Option 3: General Educational Development Testing Program
A Maryland High School Diploma may be awarded for satisfactory performance on approved General Educational Development tests, provided that the student meets those requirements as defined in Education Article §7-205, Annotated Code of Maryland and COMAR 13A.03.03.01.

Option 4: Maryland Adult External High School Diploma Program
A Maryland High School Diploma may be awarded for demonstrating competencies in general life skills and individual skills on applied performance tests, provided that the student meets those requirements as defined in COMAR 13A.03.03.02.

Dual Enrollment Opportunities

Dual College Enrollment and Concurrent College Enrollment for High School Students

A joint program between Calvert County Public Schools and College of Southern Maryland

Dual/Concurrent College Enrollment for High School Students is a program that offers certain Calvert County high school students the ability to earn college credits while still in high school. Students will find the College of Southern Maryland, Prince Frederick campus the most accessible and convenient campus, but they may choose to take classes from any of the four campuses of the College of Southern Maryland. While the college tries to schedule classes that appeal to dual/concurrent enrollment students in the afternoon; students may take approved classes at any time that fits their schedule. Schedule information (the days and times classes are offered) may be accessed online at: www.csmd.edu.

Enrollment Procedures for dual and concurrent enrollment

- ✓ Contact your high school counselor to verify that you meet the requirements for dual or concurrent enrollment.
- ✓ Apply for admission to the college online at: www.csmd.edu (There is no fee for admission.)
- ✓ Make an appointment for the placement test by calling the testing center at: 443-550-6040 (Prince Frederick Campus).
- ✓ Take the results from the placement tests to your school counselor and complete the Dual Enrollment Recommendation Form.
- ✓ Once an admissions decision is made, make an appointment with an enrollment advisor to register for your class(es). Call: 443-550-6000 and ask for a dual/concurrent enrollment advisor. Take the Dual Enrollment Recommendation Form with you to enroll at CSM.

DUAL ENROLLMENT OPPORTUNITIES

A student is considered enrolled in a **dual enrolled course** at CSM if he or she is earning both high school credit and community college credit for that course. Dual enrollment students receive a 50 percent tuition waiver. In some instances, students may take courses for both high school and college credit while remaining on the high school campus. In other cases, students may take a course at any CSM campus.

On a CCPS campus

Successful completion of selected courses taught at a CCPS high school may result in a student receiving college credits from CSM. Students who choose this option will take the course at one of CCPS's high schools, register in a CSM section of the course when the CSM enrollment advisor visits, and receive CSM credits as if they were taking the course at one of their campuses. Students who take advantage of this opportunity do not have to attend classes on a CSM campus. They receive all of their instruction within their high school.

Guidelines for Scheduling

- Students who successfully complete Algebra III at one of our high schools are given the opportunity to enroll with CSM into a section of MTH 1120 College Algebra and receive three (3) college credits.
- Students who successfully complete Academic or Honors Pre-Calculus at one of our high schools are given the opportunity to enroll with CSM into a section of MTH 1150 Precalculus Algebra and Trigonometry and receive four (4) college credits.
- Students who successfully complete Honors Composition and Rhetoric at one of our high schools are given the opportunity to enroll with CSM into a section of ENG 1010 Composition and Rhetoric and receive three (3) college credits.
- ACCESS CSM – This program provides 11th and 12th grade students the opportunity to earn college credits while in high school. Courses will be taught by a CSM professor while students are present in a distance learning lab in their high school. Students will earn elective high school credit and college credit at the same time with the possibility of completing a General Education Transfer Certificate from CSM. The courses will rotate from year to year. Please see your school counselor for additional information about this opportunity.

A list of courses available for dual enrollment is available from your school counselor.

CONCURRENT ENROLLMENT

A student is considered **concurrently enrolled** if he or she is earning community college credit for a course taken at CSM which is not offered through CCPS and simultaneously earning high school credit for courses taken at his or her high school. These college courses do not satisfy high school graduation requirements. Concurrent enrollment students receive a 50 percent tuition waiver.

College Requirements

- Must have completed 10th grade*
- Earned a cumulative high school grade point average of at least 2.0.
- Must complete placement tests in English, Reading, and/or Mathematics (if taking a math course).
- Students must receive a score which falls within the “college level range” as determined by CSM
  (CSM only allows placement tests to be taken once)

*In rare cases, younger students may qualify for dual or concurrent enrollment. Speak to your school counselor for additional information.

The deadline for application to the dual/concurrent enrollment program for spring is December 15. The deadline for application to the dual/concurrent enrollment program for fall is July 15.

Requests made after these dates will be considered on a case by case basis by CCPS.
Benefits:

- Earn college credits while still in high school.
- Experience college while still living at home.
- Dual and concurrent enrollment students receive a 50% tuition waiver.

- Expand course options once high school requirements have been completed.
- Transfer credits to other colleges and universities (plan course choices with a college advisor).
- Demonstrate on college admissions applications that you can succeed in college-level work.
- Explore personal interests that might not be available in high school.
- Get involved with college and community activities (service learning, volunteerism and co-curricular activities).
- Save money and time.

Online Learning

Students from all four high schools will be able to access online courses. Each student enrolled in an online class will be assigned a mentor.

Students will be able to access course materials from any computer with internet access, and may have a class period in their schedule allowing time for online coursework. Taking an online course will provide students with scheduling flexibility while giving them an opportunity to collaborate with students across the county and have access to unique courses that might not be available at their home school.

The following courses will be available for students to take online:

AP Offerings (1 Credit)	Full Year (1 Credit)	Semester (1/2 Credit)
AP Calculus I – 3409o AP English Lit & Comp - 1409o AP English Lang & Comp - 1309o AP Psychology – 2549o AP Statistics – 3429o	Honors Enviro Science – 4507o Foundations of Comp Sci – 3505o Foundations of Tech – 8000o Music Appreciation – 6370o	Creative Writing – 1570So Health – 7010So Introductory Statistics – 3420So Financial Literacy – 5230So

Time & Commitment

- Online courses are rigorous and academically challenging.
- A substantial commitment is required by the student.
- Students should make and keep a schedule that commits to at least 6 hours each week for the course.
- Students can schedule no more than one online course outside of the regular school day.

Attendance

- Some online courses will have a face-to-face component. Meetings may be held after school, evenings, weekends, or held virtually depending on course content.
- Students must attend homeroom days at their school. This is usually during the first 3-5 days of the school year and other days during the school year as designated by the home school.
- Only Seniors may request permission from the principal to complete an online course scheduled during the school day in an off-site location.

Guidelines for Scheduling

- Students who take an online course during the school day will be assigned a specific location and are expected to report daily.
- Ninth graders are eligible for an online course during the spring of their Freshman year.

Communication

- The vast majority of communication with students and parents is conducted using email.
- Students and parents are required to provide a current working email.

Registration & Fees

- Students must complete the Online Readiness Survey
- Students must complete an Online Orientation
- Students taking a course beyond their 7 credits will be charged a non-refundable fee of $25 and a fee of $300 for a one credit course and $250 for a half credit course.

For more information, go to http://x.co/ccpsonline or contact the Office of Digital Learning.

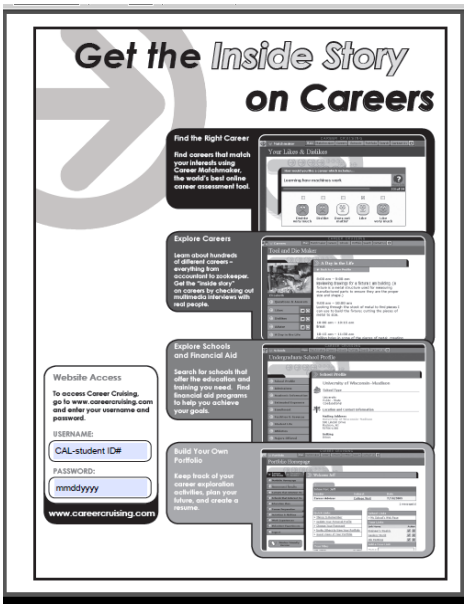
College and Career Preparation

Calvert County Public Schools has many avenues to prepare students for success in post-secondary opportunities including two and four year colleges, technical schools, the military, and the workforce. The school system subscribes to an online program called Career Cruising to help students learn about their interests and skills and how these interests and skills relate to college majors and career choices. We also use a module called ccPathfinder in Career Cruising to select courses for high school and to develop a four-year plan of study that will lead to a high school diploma. Career Cruising and ccPathfinder are accessible to all students through the internet at http://www.careercruising.com/login/CAL. Each student has a username and password. Information on accessing the Career Cruising site are below along with general information about the features available on the site.

HOW TO ACCESS CAREER CRUISING AND THE COURSE PLANNER

You can use this Internet-based career exploration and planning tool to explore career and education options and develop a plan. ccPathfinder allows you to view and change your course plan by recording the courses you have taken, are taking, and plan to take in the future. With help from your counselor, teachers, and/or parents, ccPathfinder helps you organize your course plan to meet your post-secondary education and career goals.

PART 1: HOW TO ACCESS CAREER CRUISING AND YOUR COURSE PLAN



Step 1. Go to http://www.careercruising.com/login/CAL

Step 2. Login by entering your Username and Password.

- The username is 'CAL-' followed by your student ID number. Ex. CAL-12345
- Your password is your birthdate (mmddyyyy). Ex. 01012001

Step 3. From the list of options on the left under the question, **What do you want to do?** click one of the choices to explore the interest inventories. To select courses for high school, select **Choose My Courses:**

- The upcoming school year is color coded differently. This is where you will select your courses for next year.
- Your course history is also included (your completed courses and the ones you are currently taking).
- Click on the blue book icon at the top right to see the full Course Guide.
- Remember, this is your course plan; you can select/remove courses as many times as you like.

PART 2: HOW TO CHOOSE AND SUBMIT YOUR COURSES

Step 1. To choose a compulsory course (yellow slot), click on the plus '+' icon of any yellow course slot.

- You will be presented with a list of courses to choose from.
- Use your course registration sheet or other information from your teacher to select the appropriate course. Click on the course name to see the full description, advisor notes, and pre-requisite and successor relationships of this course.
- To add a course, click **Add Courses**. You will return to your course plan and the course you have chosen will appear.
- Continue until you have selected all your compulsory courses.

Step 2. To choose all other courses (white slots), click on the plus '+' icon of any white course slot.

- You will have the option of selecting a course by Discipline or Keyword. The option to search by Discipline is the default. Click on the **Select…** dropdown to search for an elective course. Choose Keyword if you know the course number and enter the course number in the blank search box.
- Once you have made a selection, you will be presented with a list of courses to choose from or a single course if you used Keyword and entered a course number.
- Click on the course name to see the full description, advisor notes, and pre-requisite and successor relationships of this course.
- To add a course, click **Add Courses**. You will return to your course plan and the course you have chosen will appear.
- Continue until you have selected all your elective courses.

Guidelines for Scheduling

The blue symbol means there is an Advisor Note for that course that you must read.
The red symbol means there is an Alert for that course that you must read.

Step 3. Click **Learn More** below the heading **Graduation Tracking**. This section indicates how many courses you have achieved, planned and remain to succeed in completing the graduation requirements for the pathway that is listed.
Step 4. When you have selected all courses for the next school year, click on the **SUBMIT** button.

Your counselor will review your course selections with you. You can also contact your counselor at any time to answer questions or get help with the Course Planner.

Preparing for College

University System of Maryland Requirements

Each institution in the University System of Maryland has its own decision criteria, which may be more rigorous than the system-wide minimum stated below, however, the following is required at all of the University System of Maryland colleges:

- ✓ **High school diploma or its equivalent**
- ✓ **Grade point average**-A high school grade point average equivalent to a C or better is required for admission of full-time and part-time entering freshmen who have graduated from high school within three years of intended enrollment.
- ✓ **Test Score**-A score on a nationally standardized examination such as the SAT or ACT is required of all applicants who have graduated from high school within three years of intended enrollment.
- ✓ **Minimum core content proficiency requirements**-In addition to the above stated requirements, high school seniors or graduates must demonstrate their readiness for college-level work by achievement at the appropriate level of competencies in the core content associated with the array of courses that follows:
    - **English – 4**
    - **Biological and Physical Sciences - 3**
    - **Social Science/History - 3**
    - **Mathematics – 4**
        - Algebra I
        - Geometry
        - Algebra II
        - A math course higher than Algebra II
    - **Language other than English or in some instances, Advanced Technology Education electives – 2**
        - Must be two units of the same language (ASL counts as a language)
        - Students should consult the admissions office of the USM institution they are seeking to attend to determine if advanced technology is accepted in fulfillment of this requirement.

Preparing for College: Grade 9 and 10:

- **Plan Ahead:**
  - Meet with your counselor to discuss your college plans. Review your schedule to make sure you're enrolled in rigorous classes that will help you prepare for college.
  - Start a calendar with important dates and deadlines.
  - Get involved in extracurricular activities in high school.
  - Get involved in community activities.
  - Go to college fairs.
- **Learn about Colleges and Careers**
  - Learn about college costs and how financial aid works.
  - Log onto Career Cruising or the College Board website.
  - Visit colleges while they are in session.
  - Talk to friends and family members who are college students to find out more about college.
- **Prepare for Tests:**
  - Talk to your counselor and teachers about taking the PSAT in mid-October in your freshman and/or sophomore year. The PSAT is a good predictor of scores on the SAT and may make you eligible for scholarships.
  - Talk to your counselor and teachers about taking SAT Subject Tests in your strong subjects this spring. Take Subject tests such as World History, Biology E/M and Chemistry while the material is still fresh in your mind.
- **Make the Most of Summer Opportunities:**
  - Look for a great summer opportunity: job, internship or volunteer in the community.
  - Start a summer reading list. Ask teachers to recommend books.

Preparing for College: Grade 11

Take the PSAT/NMSQT:

- At school, sign up early to take the PSAT/NMSQT in October. Ask your counselor about getting PSAT/NMSQT tips and a free practice test. When taking the PSAT/NMSQT, sign up for "*Student Search Service"* to hear from colleges and scholarship programs.
- **Start Your College Search:**
- Start with you: Make lists of your abilities, preferences and personal qualities. List things you may want to study and do in college.
- Jump-start your college planning by reading about majors and careers.
- Use Career Cruising or the College Board's *College Search* to find colleges with the right characteristics.

Begin Thinking about Financial Aid:

- Talk to your counselor about your college plans. Attend college night and financial aid night at your school.
- Log onto Career Cruising or the College Board website to use search tools about colleges and financial aid.
- **Schedule Your Spring Testing**
- You can take either the SAT or up to three SAT Subject tests on one test day. Plan your testing schedule carefully if you want to take both, and register for two separate test dates. See the *SAT schedule of test dates* and *register online for the SAT.*

Guidelines for Scheduling

Get Ready for the SAT:

- ❑ Prepare for the SAT by taking a free full-length official practice test. Then get a score and skills report. Learn which skills you need to improve. Be sure to sign up on **www.collegeboard.com** , for *"The Official SAT Question of the Day"* for daily practice.
- ❑ **Explore Colleges**
  - Start visiting local colleges: large, small, public and private. Get a feel for what works for you.
  - Develop an initial list of 15 – 20 colleges that interest you. You can narrow it down later.
- ❑ **Prepare for AP Exams**
  - Do well on AP exams and receive credit, advanced placement or both at most colleges for qualifying scores.
  - Read *"Prepare for AP Exams"* on **www.collegeboard.com**.
- ❑ **Plan Ahead for the summer and Senior Year**
  - Review your senior year class schedule with your counselor. Challenge yourself with honors and AP classes.
  - Plan summer activities early. Enrich yourself by volunteering or getting an interesting job or internship.
- ❑ **Keep Up Your Momentum**
  - Visit colleges. Take campus tours and, at colleges you're serious about, schedule interviews with admission officers.
  - Request applications from the colleges you're planning to apply to. Check important dates; some colleges have early dates or rolling admission.

College Checklist for Senior Year

Getting Started

- ❑ Prepare a resume.
- ❑ Parents and students discuss college/career options.
- ❑ Research admissions standards and know what testing/courses are required.
- ❑ Personally visit college campuses.
- ❑ Take advantage of SAT Prep courses.

Fall

- ❑ Take SAT and/or ACT. Check if the SAT Subject Tests are also required.
- ❑ Begin preparing college applications and essays; have someone proofread this work.
- ❑ Attend college fairs and talk with college representatives visiting your school.
- ❑ Learn about all deadline dates for colleges and scholarships.
- ❑ Talk with guidance staff about the process for requesting high school transcripts.
- ❑ Complete the NCAA Clearinghouse Initial Eligibility Form if you plan to play college sports (Division I or II).
- ❑ Talk with teachers and school counselors who will be writing letters of recommendation. Provide them with copies of your resume.
- ❑ Have your English teacher review your essay.
- ❑ Set up a file for each college and/or scholarship application.
- ❑ Investigate all potential sources of financial aid. Check the guidance office and career center regularly for scholarship information.

Winter

- ❑ Complete the Free Application for Federal Student Aid (FAFSA) application online at FAFSA.ed.gov
- ❑ Narrow college choices to no more than five.
- ❑ Take the SAT again, if necessary.
- ❑ Apply for Senatorial and Delegate scholarships.
- ❑ Apply for other scholarships.
- ❑ Attend a financial aid night and explore all options for assistance; ask questions.

Spring

- ❑ Reply to colleges to notify them of your final choice.
- ❑ Make a final visit to the college of your choice.
- ❑ Reply promptly to all financial aid awards. A missed deadline could mean lost aid!
- ❑ Send in room deposits, if necessary.
- ❑ Take college placement exams, if necessary.
- ❑ Request high school guidance office to send transcripts and proof of graduation to the college of your choice.

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Career & Technology Education

In order to receive a Maryland High School Diploma, students must complete a program of study, or pathway. One very common pathway is the College Preparatory Pathway. Another option for students is to complete a pathway in Career and Technology Education.

Career and Technology Education (CTE) is relevant, authentic learning that gives students real job-related experiences and allows them to pursue areas of strength as well as areas of interest. It is this relevance and authenticity that provides students an educational program that truly prepares them for a career and/or college. In many CTE programs, students have an opportunity to earn college credits while still in high school.

Calvert County Public Schools offers a wide variety of CTE programs of study. Of these programs, sixteen are offered at the Career and Technology Academy (CTA), which is adjacent to Calvert High School's campus in Prince Frederick. All programs at the CTA are designed to prepare students for post-secondary education and/or employment. Programs at the CTA are two year programs. Students attend CTA in eleventh grade for level one and in twelfth grade for level two. Level one classes are generally two periods long and level two classes are three periods long. Students in level one classes also take their English course while at CTA.

The comprehensive programs are open to all eleventh and twelfth-grade students. Students who are repeating tenth grade may enroll in Career and Technology Academy courses with their high school principal's permission. Priority for enrollment in level one courses is given to eleventh grade students. Twelfth graders are permitted to enroll in level one if space is available.

At CTA, Job Placement Services provide employment readiness training for career and technology education students in the sixteen program areas. Students learn to correctly complete a job application, resume, cover letter, and will participate in individual job interviews. Seniors receive a portfolio which includes their transcript, resume, employability profile, and job application.

The CTE programs available at CTA are:

- Academy of Health Professions
- Auto Mechanics - Service Technician
- Carpentry
- CISCO Networking Academy
- Construction Design and Management (CDM)
- Cosmetology
- Curriculum for Agricultural Science Education (CASE)
- Electricity
- Firefighter/Emergency Medical Technician
- Food Production and Management
- Graphic Arts
- Heating, Ventilation, and Air Conditioning
- Home Improvement
- Masonry

- Plumbing
- Welding

Besides the CTE programs available at CTA, many Career and Technology Education programs are offered at the four high schools. Most of these programs consist of four courses. Students may complete one of the following CTE programs without ever leaving their home school:

- Academy of Finance
- Accounting
- Business Administrative Services
- Business Management
- Career Research and Development
- Computer Science
- Criminal Justice/Law Enforcement
- Project Lead the Way – Biomedical Sciences
- Project Lead the Way – Pathway to Engineering
- Teacher Academy of Maryland (TAM)

Students who complete both a college prep pathway as well as a CTE pathway are referred to as Dual Completers. Dual completion provides students with more options upon graduating from high school. Students who graduate as dual completers are prepared to continue their education in college as well as to enter the workforce.

Articulation Agreements for Career Technology Education Programs of Study

The majority of the pathways have articulation agreements in place with community colleges, technical colleges or universities which provide college credit for the completion of high school courses. Some of the programs have a “memorandum of understanding” in place with a local union giving CCPS graduates a head start when joining a union. For more information, please call the CTA.

Below is a list of articulation agreements by program:

Pathways	Location of Program	Articulation
Academy of Finance	Home High School	CSM
Academy of Health Professions	CTA	CSM
Accounting	Home High School	CSM
Automotive Service Technician	CTA	Nashville Auto Diesel College Universal Technical Institute University of Northwestern Ohio Ohio Technical College Advanced Technical Institute Pennsylvania College of Technology Community College of Baltimore County
Carpentry	CTA	Mid-Atlantic Carpenters Training Center

Pathways	Location of Program	Articulation
CASE	CTA	University of Maryland
CISCO Networking Academy	CTA	CSM
Construction Design and Management (CDM)	CTA	Morgan State University
Criminal Justice/Law Enforcement	Home High School	CSM
Fire Fighter/EMT	CTA	CSM
Food Production	CTA	Johnson & Wales University
Graphic Arts	CTA	Boston University CSM
HVAC	CTA	Unions
Plumbing	CTA	Unions
Project Lead the Way-Pathway to Engineering	Home High School	UMBC CSM
Project Lead the Way-Biomedical Sciences	Home High School	Stevenson University
Teacher Academy of Maryland	Home High School	Towson University Coppin State University Stevenson University Hood College Salisbury University CSM
Welding	CTA	Unions

New CTE Programs

Computer Science

This is a four course program of study. Upon completion of the program sequence, students may earn college credit for introductory-level Computer Science through Advanced Placement (AP) Computer Science exam(s).

The courses are described below:

- ***Foundations of Computer Science*** (based on CSTA: *Exploring Computer Science)* is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. This course satisfies the Tech Ed graduation requirement. Students may also have the option of taking the course online.
- ***AP Computer Science Principles*** (based on AP: *Computer Science Principles*) is an AP course. This course advances students' understanding of the technical aspects of computing including, programming and algorithm design, computer system organization and operation, and data representation and information organization.

- ***AP Computer Science Coding*** is a more in-depth study of computer science, specifically the technical aspects of computing including; programming and algorithm design, computer system organization and operation, and data representation and information organization.
- Students may choose from one of the following Dual Enrollment courses:
    - ***ITS 1020 Operating Systems Concepts:*** Students are introduced to the principles of various types of microcomputer operating systems. Topics include system resources, memory management, processor management, user interface and operating system functions. Major emphasis is placed on how the user, hardware, and software interface with the operating system. Various current operating systems will be covered in this course.
    - ***ITS 2940 Cyber Ethics:*** Students consider the safe and ethical use of computer technology including the Internet. They study the role of technology in today's society, cyber protection issues and the moral challenges we face in using technology including cyber space. Topics to be included are privacy, intellectual property, cyber abuse/crime, codes of conduct, policy development as well as the digital divide. In addition, students consider how the global and anonymous nature of the Internet makes it difficult to transfer standard rules of conduct to this virtual environment.

Construction Design and Management (CDM)

Students will develop an understanding of the built world through the design and construction process. Each course uses a project-based learning approach to advance students' understanding of the design-build-maintain process. Advanced architectural drafting and design skills are developed through lab-based instruction using Autodesk software tools (AutoCAD and Revit Architecture). Throughout the program, students will develop a portfolio to demonstrate knowledge of each phase of the design and construction management process. Students will also have the opportunity to earn industry certification in AutoCAD.

Students enrolled in this program are expected to:

- Understand the design-build-maintain process and the construction industry;
- Identify and use the materials and tools used in the design-build-maintain process;
- Understand the construction process and the interaction of skilled trades, designers and managers;
- Demonstrate the use of basic and advanced design principles;
- Create multiple design plans (architectural, civil and mechanical) for construction projects;
- Understand Building Information Modeling (BIM) technology to connect design and construction; and
- Demonstrate project management skills including designing, scheduling and completing an entire construction project.

Construction Design and Management I:

The first semester of this course provides an overview of the design and construction process as well as an introduction to the many career options within the field of construction. Students

will be introduced to core concepts in design and construction including: construction methods and materials; fundamental elements of design; and innovative technologies including Green Construction and Design. Students will be introduced to design software as they complete basic design projects, such as a bridge design, floor plans and elevation plans. This course also includes career exploration activities and research regarding the construction industry.

The second semester of this course provides students with an in-depth understanding of the construction design process. Students will complete a series of increasingly complex construction design projects in which they incorporate all aspects of the construction process, including zoning and regulation requirements; construction methods and materials, energy conservation; surveying; and project planning. Students will use design software to generate site plans (topography) as well as detailed building plans. Portfolios are used to show the developmental stages of a design project. Students will work in teams to develop each aspect of a construction project including developing a proposal, site plans, and construction management documents

Construction Design and Management II:

Students will work in teams to fully develop designs and a construction management plan for a pre-determined site. In this semester-long project, students begin with the legal description and topography of the site and create a proposal for development. The construction design project must meet the client's needs, budget, and the site characteristics. Students will generate a series of plans to be included with the proposal for submission to an industry review panel for approval. Upon completion of the course, students will demonstrate advanced design/drafting skills and be prepared for the AutoCAD certification exam.

The second semester of this course builds on an understanding of the construction design process to advanced knowledge and skill in construction management. In this course, students will be required to work in teams to complete a project from existing plans. The semester-long project will focus on building codes and standards, coordination of the construction process, estimating, planning and scheduling; and site management. Students will complete a portfolio of their design and construction management projects for review by an industry panel.

Curriculum for Agriculture Science Education (CASE)

During 2017-2018, the CASE program will be offered to CCPS students in two different models:

- The program will continue to be offered at Calvert High School as a four course program – one course per year. Students entering ninth grade during 2017-2018 who wish to take the CASE program should register for 8035 Introduction to Agriculture and Natural Resources.
- The program will also be offered at the CTA as a two course program. Students entering eleventh grade during 2017-2018 who would like to take the CASE program should register for 8039 Agricultural and Veterinary Science I. This course is available to students at all four CCPS high schools.

The CASE program prepares students to be successful in numerous careers in the agricultural sciences as well as preparing them to further their education at the post-secondary level. This inquiry-based program incorporates classroom learning, FFA leadership and career

development, as well as outside of the classroom experiences through Supervised Agricultural Experiences (SAE) and other internship opportunities.

Upon completion of the foundation course, Agriculture, Food, and Natural Resources, students will complete a Principles of Agricultural Science course focused on Animal Systems. Students then progress to a specialty course in Plant and Animal Biotechnology. The CASE program culminates with a capstone course in Agricultural Business, Research, and Development. All courses have direct connections to FFA activities and SAE applications.

The CTA courses are described below:

Agriculture and Veterinary Science I:

Agriculture and Veterinary Science I (AG I) will consist of content from the first two CASE courses, Agriculture, Food, and Natural Resources (AFNR) and Principles of Agricultural Science – Animal (ASA). The AFNR content, which will comprise the first semester of AG I, serves as the foundation for the CASE program sequence. AFNR is structured to enable all students to have a variety of experiences that will provide an overview of the fields of agricultural science and natural resources so that students may continue through the sequence of courses in the CASE program.

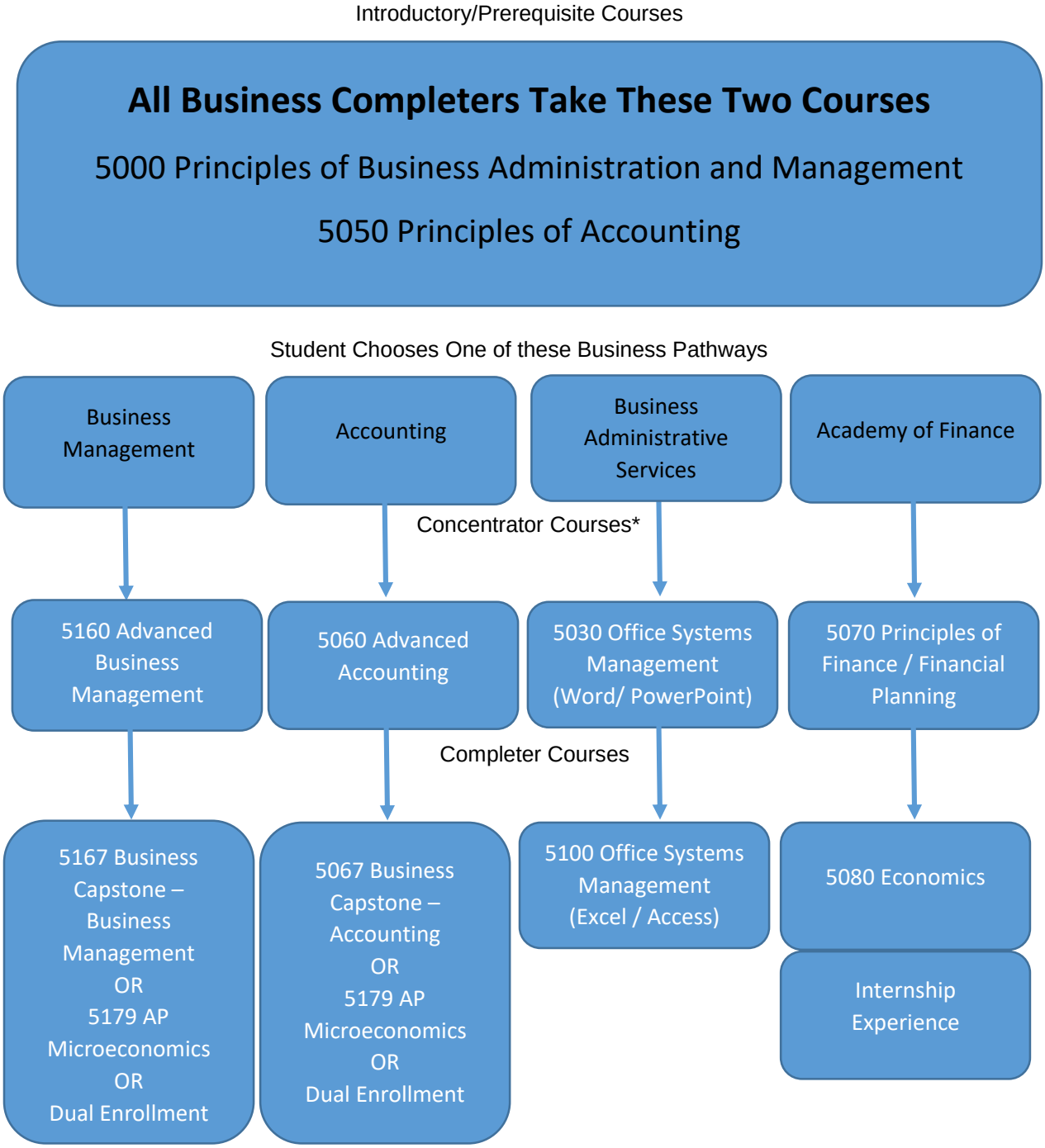
The second semester of AG I will cover content from the Principles of Agricultural Science – Animal (ASA) course. The course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in animal science so that students may continue through the sequence of courses in the CASE program. Students will explore hands-on projects and activities to learn the characteristics of animal science and work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock producers, or industry personnel face in their respective careers. The knowledge and skills students develop will be used in future courses within the CASE program.

Agriculture and Veterinary Science II:

Agriculture and Veterinary Science II (AG II) will consist of content from the third course of the CASE sequence, Animal and Plant Biotechnology, as well as the fourth course, Agriculture Business, Research, and Development. Animal and Plant Biotechnology is a specialization course in the CASE Program of Study, and provides students with experiences in industry appropriate applications of biotechnology related to plant and animal agriculture. Students will complete hands-on activities, projects, and problems designed to build content knowledge and technical skills in the field of biotechnology. Students are expected to become proficient at biotechnological skills involving micropipetting, bacterial cultures and transformations, electrophoresis, and polymerase chain reaction.

The Agriculture Business, Research, and Development course, will serve as the capstone course available to students completing the program. Instruction and continued inquiry-based projects are designed to integrate key learning from previous CASE courses and have students apply them to real-world career situations through Supervised Agricultural Experience (SAE) projects or other internship/ work-based learning opportunities. Students will be travelling off-site regularly in order to complete their Supervised Agricultural Experience (SAE) projects. The students will need to provide their own transportation.

Business Pathways



*Students not attempting to complete a particular pathway who wish to take one of the Concentrator courses should use the alternate course number.

The following programs are offered at each of the four home high schools:

Program	Course Number	Course Name	Credits
Academy of Finance	5000	Principles of Business Administration and Management	1
	5050	Principles of Accounting	1
	5070	Principles of Finance / Financial Planning	1
	5080	Economics	1
	5081	Internship Required	0
Accounting	5000	Principles of Business Administration and Management	1
	5050	Principles of Accounting	1
	5060	Advanced Accounting	1
	5067 5179	Business Capstone – Accounting OR AP Microeconomics OR Dual Enrollment	1
Business Administrative Services	5000	Principles of Business Administration and Management	1
	5050	Principles of Accounting	1
	5030	Office Systems Management (Word/PowerPoint)	1
	5100	Office Systems Management (Excel/Access)	1
Business Management	5000	Principles of Business Administration and Management	1
	5050	Principles of Accounting	1
	5160	Advanced Business Management	1
	5167 5179	Business Capstone – Business Management OR AP Microeconomics OR Dual Enrollment	1
Career Research and Development	8650	Career Research Development	1
	8660	Career Research Development Seminar	1
	8670	Work-Based Learning Experience	2
Computer Science	3505	Foundations of Computer Science	1
	3506	AP Computer Science Principles	1
	3519	AP Computer Science Coding	1
		ITS 1020 Operating Systems Concepts at CSM for Dual Enrollment OR ITS 2940 Cyber Ethics at CSM for Dual Enrollment	1
Criminal Justice / Law Enforcement	2600	American Criminal Justice System	1
	2610	Juvenile Justice	1
	2620	Criminal Law	1
	2630	Criminal Investigation	2
Curriculum for Agricultural Science Education (CASE) (CHS only)	8035	Intro. to Agriculture, Food, and Natural Resources (AFNR)	1
	8036	Principles of Agricultural Science – Animal (ASA)	1
	8037	Animal and Plant Biotechnology	1
	8038	Agricultural Business, Research, and Development	1
Project Lead the Way – Biomedical Sciences	8025	Principles of Biomedical Sciences	1
	8026	Human Body Systems	1
	8027	Medical Interventions	1
	8028	Biomedical Innovation	1
Project Lead the Way – Pathway to Engineering	8005	Introduction to Engineering Design (Prerequisite course)	1
	8006	Principles of Engineering	1
	8007	Digital Electronics	1
	8008	Aerospace Engineering	1
	8009	Engineering Design and Development	1
Teacher Academy of Maryland (TAM)	5500	Human Growth and Development through Adolescence	1
	5510	Teaching as a Profession	1
	5520	Foundations of Curriculum and Instruction	1
	5530	Education Academy Internship	1

Career Technology Education

The following programs are offered at the Career and Technology Academy (CTA):

Program	Course Number	Course Name	Credits
Academy of Health Professions	8060	Academy of Health Professions I	2
	8070	Academy of Health Professions II	3
Auto Mechanics – Service Tech.	8940	Service Technician I	2
	8950	Service Technician II	3
Carpentry	8270	Carpentry I	2
	8280	Carpentry II	3
CISCO Networking Academy	8440	PC Troubleshooting and Introduction to Network Engineering	2
	Choose one of the following courses:		
	8450	Advanced Network Engineering	3
	8455	Cyber Security and Network Engineering	3
Construction Design and Management (CDM)	8160	Construction Design and Management I	2
	8170	Construction Design and Management II (starting 2018-2019)	3
Cosmetology	8360	Cosmetology I	3
	8370	Cosmetology II	3
Curriculum for Agricultural Sciences Education (CASE)	8039	Agricultural and Veterinary Science I	2
	8040	Agricultural and Veterinary Science II (starting 2018-2019)	3
Electricity	8410	Electricity I	2
	8420	Electricity II	3
Firefighter/Emergency Medical Tech	8996	Fire and Rescue A	3
	8997	Fire and Rescue B (starting 2018-2019)	3
Food Production and Management	8510	Food Production and Management I	2
	8520	Food Production and Management II	3
Graphic Arts	8610	Graphic Arts I	2
	8620	Graphic Arts II	3
Heating, Ventilation, and Air Conditioning	8121	Heating, Ventilation, and Air Conditioning I	2
	8122	Heating, Ventilation, and Air Conditioning II	3
Home Improvement	8870	Home Improvement I	2
	8880	Home Improvement II	3
Masonry	8710	Masonry I	2
	8720	Masonry II	3
Plumbing	8111	Plumbing I	2
	8112	Plumbing II	3
Welding	8910	Welding I	2
	8920	Welding II	3

Career & Technology Education (CTE) Programs

Academy of Finance

Program	Course Number	Course Name	Credits
Academy of Finance	5000	Principles of Business Administration and Management	1
	5050	Principles of Accounting	1
	5070	Principles of Finance / Financial Planning	1
	5080	Economics	1
	5081	Internship Required	0

5000 Principles of Business Administration and Management

This is a required course in all four Business, Management, and Finance pathways. In this course you will learn the basic principles surrounding economics, management, marketing, accounting, business ethics, business law, business communication, and careers in business. Enjoy many on-line learning programs, listen to and learn from motivational guest speakers representing various fields in business.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12

5050 Principles of Accounting

This is a required course in all four Business, Management, and Finance pathways. This course provides students with the skills and knowledge necessary to manage and maintain a small company's financial resources in daily operating decisions. Students will learn to apply generally accepted accounting principles to determine the value of assets, liabilities, and owner's equity as they apply to various forms of business ownership. In addition, students will prepare, interpret, and analyze financial statements using manual and computerized systems for service and merchandising businesses. Upon completion of the course, students will also have a good understanding of payroll, payroll and sales tax liabilities and have the skills to manage a business checking account.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12

5070/5075 Principles of Finance/Financial Planning

This course introduces students to the multifaceted world of banking and other financial services companies. It begins with an introduction of the origins of money and banking, and explores the early history of banking in the United States. Students then move into an in-depth study of the financial services industry and investigate the types of companies that make up the industry. The role of the Federal Reserve System, functions of credit and borrowing, and the impact they play in regards to our economy are discussed. Employment opportunities within the industry are researched with a focus on ethics in the banking industry. The second half of the course focuses on the importance of personal financial planning, and how people reach their life goals through sound financial management. Key concentration areas covered are: preparing a budget, credit, borrowing, saving, investing, and risk management through insurance. It is recommended that students participate in the spring session of the Stock Market Game. This course satisfies the graduation requirement in Financial Literacy.
COURSE NOTE: Students wishing to complete the Academy of Finance pathway should register for 5070. Students who are not planning on completing the Academy of Finance pathway should register for 5075.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: For students wishing to complete the Academy of Finance pathway, the prerequisites are successful completion with a 70% or better or concurrent enrollment in 5000 Principles of Business Administration and Management and 5050 Principles of Accounting. For students who are not wishing to complete the Academy of Finance Pathway and are taking 5075 in order to fulfill their Financial Literacy graduation requirement, there is no prerequisite.

5080 Economics

Economics is a social science that analyzes the production, distribution and consumption of goods and services and the allocation of scarce resources. This course will focus on microeconomic issues such as scarcity, supply, demand, market structures, competition, the profit motive, and the types of economic systems found in most nations of the world today. Macroeconomic issues such as gross domestic product, inflation, unemployment, the role of government in the economy, fiscal policy, and monetary policy will also be explored. The course follows the 20 standards in economics as defined by the National Council on Economic Education. Students will also delve into global economic issues. This course helps students improve their decision making, become more informed citizens, and they will understand the complex issues surrounding them in the world today.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12
PREREQUISITE: Successful completion of Comprehensive Algebra (3123) or Academic Algebra 1 (3125) with a grade of 70% or higher.

Academy of Health Professions

Program	Course Number	Course Name	Credits
Academy of Health Professions	8060	Academy of Health Professions I	2
	8070	Academy of Health Professions II	3

8060 Academy of Health Professions I

Students who take this Level 1 course will receive their English instruction at either Calvert High School or the Career and Technology Academy. The Academy of Health Professions I curriculum is designed for students interested in health related professions. The study of human anatomy and physiology and disease process is the foundation of this program. Hands-on skills are introduced to demonstrate application of classroom knowledge. Students become certified in first aid (the fee for this certification is $25). It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year. Students will be required to purchase lab jackets and name badges and may incur additional costs associated with other class activities planned by instructors. Costs may not exceed $100.00. Any student who successfully completes 8060 and 8070 with an 80% or higher and attends CSM will be eligible for college credit from CSM.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 2 **TYPE:** Academic **GRADE:** 11
PREREQUISITE: Successful completion with a grade of 70% or higher in Biology (4204 or 4207). Enrollment based on completion of an application and interview.

8070 Academy of Health Professions II

Academy of Health Professions II highlights direct patient care related to multiple health disciplines. Emphasis is placed on preparing the student for hands-on experience in various healthcare fields. Students are certified in Health Care Provider CPR. Students who qualify will be given an opportunity to participate in a 40-hour clinical rotation at a local healthcare facility. At the end of the senior year, students who complete the requirements can sit for their Certified Nursing Assistant (CNA), Geriatric Nursing Assistant (GNA), and Certified Clinical Medical Assistant (CCMA) certifications. These certifications prepare students for post-secondary education or immediate employment upon graduation. Any students who successfully complete 8060 and 8070 with an 80% or higher and attend CSM will be eligible for college credit from CSM. Students who choose to pursue the certifications listed will be responsible for the testing fees and any other required costs.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 3 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Successful completion with a grade of 70% or higher in Academy of Medicine I (8060).

Accounting

Program	Course Number	Course Name	Credits
Accounting	5000	Principles of Business Administration and Management	1
	5050	Principles of Accounting	1
	5060	Advanced Accounting	1
	Choose one of these	5067 Business Capstone – Accounting 5179 AP Microeconomics One Dual Enrollment course at CSM: BAD 1210 Principles of Management BAD 1335 Applied Business Communications BAD 2070 Business Law I ECN 1015 Introduction to Business in a Market Economy ENG 2050 Business and Technical Writing ITS 1015 The Information Age: Emerging Technologies	1

5000 Principles of Business Administration and Management

This is a required course in all four Business, Management, and Finance pathways. In this course you will learn the basic principles surrounding economics, management, marketing, accounting, business ethics, business law, business communication, and careers in business. Enjoy many on-line learning programs, listen to and learn from motivational guest speakers representing various fields in business.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12

5050 Principles of Accounting

This is a required course in all four Business, Management, and Finance pathways. This course provides students with the skills and knowledge necessary to manage and maintain a small company's financial resources in daily operating decisions. Students will learn to apply generally accepted accounting principles to determine the value of assets, liabilities, and owner's equity as they apply to various forms of business ownership. In addition, students will prepare, interpret, and analyze financial statements using manual and computerized systems for service and merchandising businesses. Upon completion of the course, students will also have a good understanding of payroll, payroll and sales tax liabilities and have the skills to manage a business checking account.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12

5160/5165 Advanced Business Management

This course explores advanced topics such as major management theories and functions, operational aspects of management, human resource management, production management, accounting and marketing management, and international management. In this course, students will prepare a formal business plan for a small, service-based or goods-based business. This course prepares students to pass the College Board's CLEP (College Level Examination Program) exam in Principles of Management. The CLEP exam is recognized by close to 3,000 colleges and universities nationwide. Students earn three college credits by passing this exam. There is an $80 test fee and a $25 sitting fee required to take the exam at the College of Southern Maryland. More information is available about the CLEP exam at www.collegeboard.org/clep.
COURSE NOTE: Students wishing to complete the Business Management pathway should register for 5160. Students who are not planning on completing the Business Management pathway should register for 5165.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12
PREREQUISITE: Successful completion of both 5000 Principles of Business Management and 5050 Principles of Accounting with a 70% or higher.

5067 Business Capstone-Accounting

The Capstone course will provide instruction on managing projects, creating business plans, conducting research, and utilizing electronic tools. Students will then personally design an independently conducted activity, or Capstone project, that enables them to further their expertise of accounting. This Capstone project offers an opportunity to think critically about a subject of interest while demonstrating mastery and application of the skills and knowledge within a particular content area. The course culminates with a presentation of the students' Capstone projects. This course prepares students to pass the College Board's CLEP (College Level Examination Program) exam in Financial Accounting. The CLEP exam is recognized by close to 3,000 colleges and universities nationwide. Students earn three college credits by passing this exam. The College of Southern Maryland (CSM) provides access to the CLEP exams. There is a fee required to take this exam at CSM. More information is available about the CLEP exam at www.collegeboard.org/clep. Students who enroll in this course are required to purchase a CLEP exam preparation book.
CREDIT: 1 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Successful completion of and/or concurrent enrollment in: 5000 Principles of Business Administration and Management, 5050 Principles of Accounting, and 5060 Advanced Accounting.

5179 AP Microeconomics

The purpose of an AP course in Microeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course 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. There is no single approach that an AP Microeconomics course is expected to follow. Whatever the approach, however, AP teachers are advised to take into account certain topics generally covered in college courses. The following topics will be explored: basic economical concepts, nature and functions of product markets, factor markets, market failure and role of the government. It is the expectation that all students that enroll in this course sit for the exam. Students may incur additional costs associated with field trips as planned by the instructor. The cost of the AP exam is at the student's expense. This course will be offered depending on enrollment.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12
PREREQUISITE: Instructor's approval.

Auto Mechanics-Service Technician

Program	Course Number	Course Name	Credits
Auto Mechanics – Service Technician	8940	Service Technician I	2
	8950	Service Technician II	3

8940 Service Technician I

Students who take this Level 1 course will receive their English instruction at either Calvert High School or the Career and Technology Academy. Focus will be on safety, basic theory, shop operations, brakes, steering, and suspensions. Students will have the opportunity to learn skills needed for career entry employment in the automotive industry. This National Automotive Technician Foundation, Inc., (NATEF) designed course will prepare students to enter an automotive training program at the post-secondary level. Students are responsible for a NA3SA testing fee ($15.00 yearly), the cost of a uniform shirt from CTA of $20.00. Uniform pants and shoes are purchased on their own. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to participate in the AYES program.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 2 **TYPE:** Academic **GRADE:** 11
PREREQUISITE: Students must file an application for admission into the program, take a math test, a

mechanical aptitude and reading test, have at least a 70% over-all GPA and 90% attendance last year. Students must have acquired a minimum of two credits in math and be concurrently enrolled in a third math course in order to register for Service Technician I.

8950 Service Technician II

Students will build on the skills taught in the Service Technician I program. Students will focus on safety, basic theory, shop operations, electrical/electronics, and engine performance. Focus is on brakes, steering and suspension, electrical/electronics, and engine performance. Students are prepared to sit for the NA3SA tests. Each student is responsible for the cost of a uniform (they may use the previous year's uniform), and the NA3SA testing fee ($15.00 yearly). It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to participate in the AYES program.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 3 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Successful completion of Service Technician I (8940) with a grade of 70% or higher and teacher recommendation.

Business Administrative Services

Program	Course Number	Course Name	Credits
Business Administrative Services	5000	Principles of Business Administration and Management	1
	5050	Principles of Accounting	1
	5030	Office Systems Management (Word/PowerPoint)	1
	5100	Office Systems Management (Excel/Access)	1

5000 Principles of Business Administration and Management

This is a required course in all four Business, Management, and Finance pathways. In this course you will learn the basic principles surrounding economics, management, marketing, accounting, business ethics, business law, business communication, and careers in business. Enjoy many on-line learning programs, listen to and learn from motivational guest speakers representing various fields in business.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12

5050 Principles of Accounting

This is a required course in all four Business, Management, and Finance pathways. This course provides students with the skills and knowledge necessary to manage and maintain a small company's financial resources in daily operating decisions. Students will learn to apply generally accepted accounting principles to determine the value of assets, liabilities, and owner's equity as they apply to various forms of business ownership. In addition, students will prepare, interpret, and analyze financial statements using manual and computerized systems for service and merchandising businesses. Upon completion of the course, students will also have a good understanding of payroll, payroll and sales tax liabilities and have the skills to manage a business checking account.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12

5030/5035 Office Systems Management (Word/PowerPoint)

The Office Systems Management (Word/PowerPoint) course provides students with a study of advanced business practices, information systems and computer applications. Students develop managerial and technical skills for business support operations through applied learning. Problem-solving skill development is incorporated throughout the course. Competencies include: applying emerging technologies in order to complete appropriate office operations; using advanced desktop publishing and word processing software in order to create business documents and professional presentations;

exhibiting appropriate interpersonal knowledge of acceptable values and behaviors in order to become ethically responsible employees and developing an appreciation of diversity in the workplace. Industry standard office equipment and Microsoft Office software will be used in this course. When students complete this course, they will be able to obtain the advanced competencies to take the Microsoft Office Specialist exam for industry certification in MS Word and/or MS PowerPoint.
COURSE NOTE: Students wishing to complete the Business Administrative Services pathway should register for 5030. Students who are not planning on completing the Business Administrative Services pathway should register for 5035.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12

5100 Office Systems Management (Excel/Access)

The Office Systems Management (Excel/Access) course provides students with a study of advanced skills using Microsoft's leading business productivity software to create spreadsheets and databases. Students will be expected to think analytically, manipulate information, and use the computer as a productivity tool through integrated application programs. Expertise in technology will contribute to students' future career mobility, advancement potential, compensation and job satisfaction. Industry standard office equipment and Microsoft Office software will be used in this course. When students complete this course, they will be able to obtain the advanced competencies to take the Microsoft Office Specialist exam for industry certification in MS Excel and/or MS Access.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12

Business Management

Program	Course Number	Course Name	Credits
Business Management	5000	Principles of Business Administration and Management	1
	5050	Principles of Accounting	1
	5160	Advanced Business Management	1
	Choose one of these	5167 Business Capstone – Business Management 5179 AP Microeconomics One Dual Enrollment course at CSM: BAD 1210 Principles of Management BAD 1335 Applied Business Communications BAD 2070 Business Law I ECN 1015 Introduction to Business in a Market Economy ENG 2050 Business and Technical Writing ITS 1015 The Information Age: Emerging Technologies	1

5000 Principles of Business Administration and Management

This is a required course in all four Business, Management, and Finance pathways. In this course you will learn the basic principles surrounding economics, management, marketing, accounting, business ethics, business law, business communication, and careers in business. Enjoy many on-line learning programs, listen to and learn from motivational guest speakers representing various fields in business.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12

5050 Principles of Accounting

This is a required course in all four Business, Management, and Finance pathways. This course provides students with the skills and knowledge necessary to manage and maintain a small company's financial resources in daily operating decisions. Students will learn to apply generally accepted accounting principles to determine the value of assets, liabilities, and owner's equity as they apply to various forms of business ownership. In addition, students will prepare, interpret, and analyze financial statements using

manual and computerized systems for service and merchandising businesses. Upon completion of the course, students will also have a good understanding of payroll, payroll and sales tax liabilities and have the skills to manage a business checking account.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12

5160/5165 Advanced Business Management

This course explores advanced topics such as major management theories and functions, operational aspects of management, human resource management, production management, accounting and marketing management, and international management. In this course, students will prepare a formal business plan for a small, service-based or goods-based business. This course prepares students to pass the College Board's CLEP (College Level Examination Program) exam in Principles of Management. The CLEP exam is recognized by close to 3,000 colleges and universities nationwide. Students earn three college credits by passing this exam. There is an $80 test fee and a $25 sitting fee required to take the exam at the College of Southern Maryland. More information is available about the CLEP exam at www.collegeboard.org/clep.
COURSE NOTE: Students wishing to complete the Business Management pathway should register for 5160. Students who are not planning on completing the Business Management pathway should register for 5165.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12
PREREQUISITE: Successful completion of both 5000 Principles of Business Management and 5050 Principles of Accounting with a 70% or higher.

5167 Business Capstone-Business Management

The Capstone course will provide instruction on managing projects, creating business plans, conducting research, and utilizing electronic tools. Students will then personally design an independently conducted activity, or Capstone project, that enables them to further their expertise of business management. This Capstone project offers an opportunity to think critically about a subject of interest while demonstrating mastery and application of the skills and knowledge within a particular content area. The course culminates with a presentation of the students' Capstone projects. This course prepares students to pass the College Board's CLEP (College Level Examination Program) exam in Principles of Management. The CLEP exam is recognized by close to 3,000 colleges and universities nationwide. Students earn three college credits by passing this exam. The College of Southern Maryland (CSM) provides access to the CLEP exams. There is a fee required to take this exam at CSM. More information is available about the CLEP exam at www.collegeboard.org/clep. Students who enroll in this course are required to purchase a CLEP exam preparation book.
CREDIT: 1 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Successful completion of and/or concurrent enrollment in: 5000 Principles of Business Administration and Management, 5050 Principles of Accounting, and 5160 Advanced Business Management.

5179 AP Microeconomics

The purpose of an AP course in Microeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course 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. There is no single approach that an AP Microeconomics course is expected to follow. Whatever the approach, however, AP teachers are advised to take into account certain topics generally covered in college courses. The following topics will be explored: basic economical concepts, nature and functions of product markets, factor markets, market failure and role of the government. It is the expectation that all students that enroll in this course sit for the exam. Students may incur additional costs associated with field trips as planned by the instructor. The cost of the AP exam is at the student's expense. This course will be offered depending on enrollment.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12
PREREQUISITE: Instructor's approval.

Career Research and Development

Program	Course Number	Course Name	Credits
Career Research and Development	8650	Career Research Development	1
	8660	Career Research Development Seminar	1
	8670	Work-Based Learning Experience	2

8650 Career Research and Development

Career Research and Development is the first in a series of two courses and a work based learning experience designed to teach students the process of self-awareness, career exploration and the setting of academic and career related goals to prepare them for further education or employment. Students will be introduced to career planning, job skills, the Skills for Success (communication, learning, interpersonal technology, and critical thinking). Classes will be held at the home school of the student. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12

8660 Career Research and Development Seminar

Students will research and refine skills for job seeking and advancement. Through a seminar format, students will apply financial literacy skills to life management and assess personal and professional goals. They will complete a job search, practice interviewing and build a career portfolio that demonstrates proficiency in workplace readiness, personal financial management, and employment experiences. Students will complete a portfolio as the final project for this class. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
CREDIT: 1 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Successful completion of Career Research and Development 1. Concurrent enrollment is permitted.
COREQUISITES: If you take this course, you must also take 8650 - Career Research and Development

8670 Work-Based Learning Experience

The work-based learning (WBL) experience takes place at the work-site, includes a minimum of 270 hours, and may be paid or unpaid. This experience is directed by the WBL agreement and plan developed by the student, parent, WBL coordinator and employer. The WBL plan identifies appropriate competencies, duties and tasks in academic, technical and work readiness areas that apply directly to the goals for a specific work-related placement. Work-based learning placements prepare students for employment that leads to a family - supporting wage based on student interest and employer demand.
CREDIT: 2 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Career Research and Development 1. Concurrent enrollment with Career Research and Development Seminar.
COREQUISITES: If you take this course, you must also take 8660 - Career Research and Development Seminar

Carpentry

Program	Course Number	Course Name	Credits
Carpentry	8270	Carpentry I	2
	8280	Carpentry II	3

8270 Carpentry I

Students who take this Level 1 course will receive their English instruction at either Calvert High School or Career and Technology Academy. If you want to learn a trade, build your own house or just like working with your hands, the Carpentry Program may be for you. You will develop the knowledge and skills needed in today's home construction and remodeling. Students will earn the OSHA 10 safety certification and work towards their certifications through the National Center for Construction Education and Research (NCCER) This curriculum covers all aspects of Construction such as blueprint reading, framing, job and tool safety and estimating materials. Students will also have the opportunity to demonstrate their abilities through the SkillsUSA organization competing against students from other school systems. Students will need to supply appropriate work clothes, work boots, and tape measure. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 2 **TYPE:** Academic **GRADE:** 11

8280 Carpentry II

Level II students in Carpentry will earn their NCCER certifications through the Associated Builders and Contractors of America. These certifications allow students to enter post-secondary Carpentry training programs at advanced apprentice levels. Students will develop the Job entry skills needed for the success in the construction field. Students will be actively involved in many hands-on construction projects during the year including a house construction project. Students in the Carpentry Program will be given the opportunity to compete in a variety of SkillsUSA contests such as Carpentry, Cabinetmaking, Teamwork and Chapter Display. This program has been extremely successful in these areas advancing many students to the National Levels contests. Students successfully completing the second year of Carpentry will be considered Program Completers. Students will need to supply appropriate work clothing, work boots, and tape measure and pay the NCCER registration fee of $25.00. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 3 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Successful completion Carpentry I (8270).

CISCO Networking Academy

Program	Course Number	Course Name	Credits
CISCO Networking Academy	8440	PC Troubleshooting and Introduction to Network Engineering	2
	Choose one of the following courses:		
	8450	Advanced Network Engineering	3
	8455	Cyber Security and Network Engineering	3

While participating in the Networking Academy program, students are granted access to computer functions as a part of the curriculum. This privilege enables participating students to perform many functions beyond those that are typical for a CCPS student. Students are expected to always use what they have learned in the program in a responsible manner and not for destructive or disruptive purposes. Specific Networking Academy offenses include, but are not limited to:

- Attempting to gain access to information owned by the school system or by its authorized users without permission from the appropriate parties;
- Accessing, downloading, printing, or storing information with sexually explicit content as prohibited by law or CCPS policy and procedures;

- Installing or downloading computer software, programs, or executable files that violate CCPS policies and procedures;
- Intentionally developing or experimenting with malicious programs (viruses, worms, spy-ware, keystroke loggers, phishing software, Trojan horses, etc.) on any school–owned computer;
- Knowingly propagating malicious programs;
- Changing administrator rights on any school-owned computer, or the equivalent on non-Microsoft Windows based systems.

Failure to comply with these expectations will result in disciplinary action. Depending on the severity of the incident, students may be suspended from school, restricted from using CCPS computers, or permanently removed from the Networking Academy program.

A more comprehensive list of expectations as well as the consequences for failing to comply with these expectations are included in a student-user agreement form. This form, which students and their parents/guardians are required to sign, will be distributed to students and thoroughly explained at the beginning of each school year.

8440 PC Troubleshooting and Introduction to Network Engineering

This course covers the content from three of Cisco's courses: IT Essentials I, IT Essentials II, and CCNA Discovery I. The IT Essentials courses provide an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level Information and Communication Technology (ICT) professionals. The curriculum covers the fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the responsibilities of an ICT professional. The CCNA Discovery I course effectively introduces students to Networks. This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 2 **TYPE:** Academic **GRADE:** 11

8450 Advanced Network Engineering

This level 2 course in the Networking Academy program covers the content of three of Cisco's courses: CCNA Discovery II, III, and IV. In Discovery II, the students cover routing and switching essentials. This course describes the architecture, components and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of the course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. In Discovery III, the students learn about scaling networks. This course describes the architecture, components, and operations of routers and switches in a larger and more complex network. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network. Discovery IV focuses on connecting networks. This course discusses the WAN technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students will also develop the knowledge and skills needed to implement IPSec and virtual private network (VPN) operations in a complex network.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 3 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: 8440 - PC Troubleshooting and Introduction to Network Engineering

8455 Cyber Security and Network Engineering

This level 2 course in the Networking Academy program covers the content of three of Cisco's courses: CCNA Discovery II, Cyberwatch: Ethics and the Information Age, and Cyberwatch: Security+. CCNA Security is a hands-on, career-oriented eLearning solution with an emphasis on practical experience to help students develop specialized security skills to advance their careers. The curriculum helps prepare students for entry-level security career opportunities Implementing Cisco IOS® Network Security (IINS) certification exam (640-554) leading to the Cisco® CCNA Security certification. The Cisco Networking Academy CCNA Security course provides a next step for individuals who want to enhance their CCNA-level skill set and help meet the growing demand for network security professionals. The curriculum provides an introduction to the core security concepts and skills needed for the installation, troubleshooting, and monitoring of network devices to maintain the integrity, confidentiality, and availability of data and devices. CCNA Security includes the following features: • Students develop an in-depth, theoretical understanding of network security principles as well as the tools and configurations available. • The courses emphasize the practical application of skills needed to design, implement, and support network security. • Hands-on labs help students develop critical thinking and complex problem-solving skills. • Packet Tracer simulation-based learning activities promote the exploration of networking security concepts and allow students to experiment with network behavior and ask "what if" questions. Innovative assessments provide immediate feedback to support the evaluation of knowledge and acquired skills.
CREDIT: 3 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: 8440 - PC Troubleshooting and Introduction to Network Engineering

Computer Science

Program	Course Number	Course Name	Credits
Computer Science	3505	Foundations of Computer Science	1
	3506	AP Computer Science Principles	1
	3519	AP Computer Science Coding	1
	Choose one of these dual enrollment options	ITS 1020 Operating Systems Concepts at CSM for Dual Enrollment OR ITS 2940 Cyber Ethics at CSM for Dual Enrollment	1

3505/3505o Foundations of Computer Science

This course is being offered in a face-to-face or online environment.
This course is designed to introduce students to the field of computer science through an exploration of the conceptual ideas of computing. The course will help students understand why certain software tools and programming languages are utilized to solve particular problems. The goal is to develop in students the computational thinking practices of algorithm development, problem solving and programming within the context of real world challenges relevant to the rapidly changing world of 21st century computing. Students will also be introduced to topics such as interface design, limits of computers and societal and ethical issues.
As a result of this course, students will develop the knowledge, skills, and abilities to perform the following computational practices:

- Describe and analyze the effects of developments in computing, including the role of Cyber Security;
- Design and implement creative solutions and artifacts to solve real-world problems;
- Apply abstractions and models using appropriate programming languages;
- Analyze their computational work and the work of others to determine effectiveness in meeting client needs;

- Connect computation with other disciplines and the role of Information Technology (IT) professionals;
- Communicate thought processes (used in development) and results (product review); and
- Work effectively in teams to identify and develop computing solutions.

Foundations of Computer Science is the first course of a four course Career and Technology Education program of study called Computer Science. Depending on which high school they attend, students wishing to complete this program may do so at the CTA or their regular high school. This course meets the graduation requirement for Technology Education.
Use course #3505o if you wish to take this course online.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12

3506 AP Computer Science Principles

This course advances students' understanding of the technical aspects of computing including: programming and algorithm design, computer system organization and operation, and data representation and information organization. Specific programming languages may include Processing, C++, and Java.
As a result of this course, students will:
Demonstrate proficiency in programming and algorithm design that requires the use of data abstraction to solve basic programming problems in multiple (or single) programming paradigms;

- Analyze computer systems including components, organization, and operation;
- Demonstrate in-depth knowledge of how computer systems work individually and collectively;
- Apply principles of data representation and information organization at the machine level for program analysis;
- Apply principles of data representation and information organization at the data structure level for program implementation;
- Apply principles of data representation and information organization at the problem representation and files and database levels for solution design;
- Analyze the interaction amongst systems for people for overall system design and effectiveness;
- Work effectively in teams in collaborative software development.

This course is the second course of a four course Career and Technology Education program of study called Computer Science. Depending on which school they attend, students who wish to complete this program may do so at the CTA in 11th and 12th grade.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 10-12
PREREQUISITE: 3505 - Foundations of Computer Science

3519 AP Computer Science Coding

Students are taught how to write logically structured, well-documented computer programs. Major course emphases are programming methodology, algorithms, and data structures. Computer systems and the social implications of computing are also examined. The programming language used is JAVA, which is the only language employed on the Advanced Placement Computer Science examination. Since documentation plays a central role in this course, students must have good written communication skills. Similarly, prior to enrollment, students should be able to structure and develop a topic in a logical manner. Taught at the college level, this course affords advanced students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of many colleges or universities which recognize students' participation in the College Board's Advanced Placement Program. Students who enroll in this course are not required to take the national Advanced Placement examination. However, this course does prepare them for the "A" version of the Advanced Placement Computer Science examination. Students who complete an Advanced Placement course shall receive a weighted grade.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 10-12
PREREQUISITE: Successful completion of Academic Algebra 2 (3135) and either Programming in JAVA (3510) or AP Computer Science Principles (3506) with a grade of 80% or higher and teacher recommendation.

Construction Design and Management

Program	Course Number	Course Name	Credits
Construction Design and Management (CDM)	8160	Construction Design and Management I	2
	8170	Construction Design and Management II (starting 2018-2019)	3

8160 Construction Design and Management I

The first semester of this course provides an overview of the design and construction process as well as an introduction to the many career options within the field of construction. Students will be introduced to core concepts in design and construction including: construction methods and materials; fundamental elements of design; and innovative technologies including Green Construction and Design. Students will be introduced to design software as they complete basic design projects, such as a bridge design, floor plans, and elevation plans. This course also includes career exploration activities and research regarding the construction industry.

The second semester of this course provides students with an in-depth understanding of the construction design process. Students will complete a series of increasingly complex construction design projects in which they incorporate all aspects of the construction process, including zoning and regulation requirements; construction methods and materials; energy conservation; surveying; and project planning. Students will use design software to generate site plans (topography) as well as detailed building plans. Portfolios are used to show the developmental stages of a design project. Students will work in teams to develop each aspect of a construction project including developing a proposal, site plans, and construction management documents.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 2 TYPE: Academic GRADE: 11

Cosmetology

Program	Course Number	Course Name	Credits
Cosmetology	8360	Cosmetology I	3
	8370	Cosmetology II	3

8360 Cosmetology I

** Each student is responsible for the cost of both a personal kit and a uniform. The cost is approximately $600. Students who take this Level 1 course will receive their English instruction at their home high school. The two-year cosmetology program is to prepare students to successfully pass the Maryland State Board Licensing Exam and become a licensed cosmetologist. Students care for hair, skin and nails by training in areas such as styling, cutting, coloring, permanent waving, chemical relaxing, facials, manicures, and pedicures. Students become familiar with the principles of sanitation, chemistry of cosmetics, and state regulations governing the cosmetology field. Excellent attendance is required to attain 1,500 hours to qualify to sit for the State Board Exam. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year. Students who complete this course will have satisfied the required rigor credit.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 3 **TYPE:** Academic **GRADE:** 11
PREREQUISITE: Enrollment is based on an evaluation of a student interview and an admission test.

8370 Cosmetology II

** Each student is responsible for the State Board Examination licensing fee. This cost is approximately $100. ** Students who successfully complete this course will receive one elective credit in lab Science. This course incorporates theory and practical applications learned in the first level. Students continue practicing basic techniques which are reinforced in the clinic. Topics studied include current trends in coloring, styling, cutting, wigs, nail diseases, skin disorders, massage, facial makeup, and basic electricity. Detailed theory and practical skills will be studied in preparation for the Maryland State Board exam, which all students are required to take as a part of successful course completion. A Senior Capstone project on Salon Business is required. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 3 TYPE: Academic GRADE: 12
PREREQUISITE: Cosmetology I (8360)

Criminal Justice/Law Enforcement

Program	Course Number	Course Name	Credits
Criminal Justice / Law Enforcement	2600	American Criminal Justice System	1
	2610	Juvenile Justice	1
	2620	Criminal Law	1
	2630	Criminal Investigation	2

A student enrolled in any of the four Criminal Justice Pathway courses who is arrested for any reportable offense* will be placed on Class 2 Status. Students on Class 2 Status will receive classroom instruction along with their classmates and are invited to participate in most classroom discussions. However, these students will be removed from field trips or instructional sessions conducted by local, state or federal law enforcement officials that specifically deal with policing and investigative procedures. Class 2 students will be given alternative assignments for the field trips and policing sessions from which they have been removed and will not be held responsible for any material presented exclusively in one of these learning activities.

Criminal Justice Pathway students who receive either in school or out of school suspension may be excluded from field trips at the discretion of the teacher in consultation with their principal. Students who do not attend a field trip for this reason will be given an alternative assignment.

*Reportable offenses are crimes committed in the community by children enrolled in the public school system and reported to the school system by the appropriate law enforcement agency.

*Reportable offenses do not include in-school conduct which would traditionally be treated as a matter of school discipline to be handled by school administrators. Additionally, reportable offenses do not include out of school conduct that does not lead to an arrest and would not qualify as a crime if committed by an adult.

2600 American Criminal Justice System

This is an introductory course for students interested in the law enforcement career pathway. It consists of an overview of the agencies comprising the criminal justice system, namely, the legislature, police, courts, and corrections. A principal focus of the course is based upon the many occupations in this broad field. Information on how the legal and the public administrative systems work is provided. Students are required to purchase a uniform that will be worn one day each week. Beginning with his/her first day of high school, a student who is arrested for any reportable offense* will be prohibited from enrolling the Criminal Justice program. Those who enter the law enforcement career pathway and complete this course with a grade of 80% or higher may be eligible to be awarded three college credits at the College of

Southern Maryland. *Reportable offenses are crimes committed in the community by children enrolled in the public school system and reported to the school system by the appropriate law enforcement agency. Reportable offenses do not include in-school conduct which would traditionally be treated as a matter of school discipline to be handled by school administrators. Additionally, reportable offenses do not include out of school conduct that does not lead to an arrest and would not qualify as a crime if committed by an adult.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: Successful completion of World History and most recent English course with a grade average of 70% or higher or teacher recommendation.

2610 Juvenile Justice

The second of four courses in the law enforcement career pathway, Juvenile Justice provides students with a practical understanding of the law and the legal system as it affects juveniles. The fundamental principles and values underlying the Constitution, the laws, and the legal system are examined. Also discussed are current legal issues and controversies that have an impact upon the juvenile. Beginning with his/her first day of high school, a student who is arrested for any reportable offense* will be prohibited from enrolling the Criminal Justice program. Students are required to purchase a uniform that will be worn one day each week. If enrollment numbers are not sufficient at the home school for the course to carry, enrollments may be combined, and students in this career pathway may be transported to Calvert High School or Career and Technology Academy for instruction. *Reportable offenses are crimes committed in the community by children enrolled in the public school system and reported to the school system by the appropriate law enforcement agency. Reportable offenses do not include in-school conduct which would traditionally be treated as a matter of school discipline to be handled by school administrators. Additionally, reportable offenses do not include out of school conduct that does not lead to an arrest and would not qualify as a crime if committed by an adult.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of American Criminal Justice System (2600) with a grade of 70% or higher.

2620 Criminal Law

The third of four courses in the law enforcement career pathway, Criminal Law deals with both the causes of crime and the prescriptions of the criminal justice system and society in alleviating it. In addition to introducing and explaining general legal principles, this course presents an overview of substantive criminal law. Beginning with his/her first day of high school, a student who is arrested for any reportable offense* will be prohibited from enrolling the Criminal Justice program. Students are required to purchase a uniform that will be worn one day each week. If enrollment numbers are not sufficient at the home school for the course to carry, enrollments may be combined, and students in this career pathway may be transported to Calvert High School for instruction. *Reportable offenses are crimes committed in the community by children enrolled in the public school system and reported to the school system by the appropriate law enforcement agency. Reportable offenses do not include in-school conduct which would traditionally be treated as a matter of school discipline to be handled by school administrators. Additionally, reportable offenses do not include out of school conduct that does not lead to an arrest and would not qualify as a crime if committed by an adult.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of American Criminal Justice (2600) with a grade of 70% or higher.

2630 Criminal Investigation

The last of four courses in the law enforcement career pathway, this course introduces students to the investigative procedures used by the law enforcement community in obtaining and processing evidence. Emphasis is placed upon critical thinking, reasoning, communication, observation and problem-solving skills as they apply to the investigation procedure. This course is facilitated by a member of the Calvert County Sheriff's Office and conducted with the regimen and expectations in deportment followed at the

Police Academy. Beginning with his/her first day of high school, a student who is arrested for any reportable offense* will be prohibited from enrolling the Criminal Justice program. Students are required to purchase a uniform that will be worn one day each week. Completers in the criminal justice pathway may be transported to another school from their home school for instruction and then returned.
*Reportable offenses are crimes committed in the community by children enrolled in the public school system and reported to the school system by the appropriate law enforcement agency. Reportable offenses do not include in-school conduct which would traditionally be treated as a matter of school discipline to be handled by school administrators. Additionally, reportable offenses do not include out of school conduct that does not lead to an arrest and would not qualify as a crime if committed by an adult.
CREDIT: 2 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Successful completion of Juvenile Justice (2610) and Criminal Law (2620) with a grade of 80% or higher or teacher recommendation. The successful completion of or concurrent enrollment in Psychology (2540) and Sociology (2550) is recommended.

Curriculum for Agricultural Sciences Education (CASE)

During 2017-2018, the CASE program will be offered to CCPS students in two different models:

- The program will continue to be offered at Calvert High School as a four course program – one course per year. Students entering ninth grade during 2017-2018 who wish to take the CASE program should register for 8035 Introduction to Agriculture and Natural Resources.
- The program will also be offered at the CTA as a two course program. Students entering eleventh grade during 2017-2018 who would like to take the CASE program should register for 8039 Agricultural and Veterinary Science I. This course is available to students at all four CCPS high schools.

Curriculum for Agricultural Sciences Education (CASE) at CTA

Program	Course Number	Course Name	Credits
Curriculum for Agricultural Science Education	8039	Agricultural and Veterinary Science I	2
	8040	Agricultural and Veterinary Science II (starting 2018-2019)	3

8039 Agricultural and Veterinary Science I

The Agricultural Science courses use a nationally recognized curriculum called CASE – Curriculum for Agricultural Science Education. Agricultural Science I (AG I) will consist of content from the first two CASE courses, Agriculture, Food, and Natural Resources (AFNR) and Principles of Agricultural Science – Animal (ASA). The AFNR content, which will comprise the first semester of AG I, serves as the foundation for the CASE™ program sequence. AFNR is structured to enable all students to have a variety of experiences that will provide an overview of the fields of agricultural science and natural resources so that students may continue through the sequence of courses in the CASE™ program.

The second semester of AG I will cover content from the Principles of Agricultural Science – Animal (ASA) course. The course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in animal science so that students may continue through the sequence of courses in the CASE™ program. Students will explore hands-on projects and activities to learn the characteristics of animal science and work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock producers, or industry personnel face in their respective careers. The knowledge and skills students develop will be used in future courses within the CASE™ program.
COURSE NOTE: This course is taught at the Career & Technology Academy
CREDIT: 1 **TYPE:** Academic **GRADE:** 11

Curriculum for Agricultural Sciences Education (CASE) – CHS Only

Curriculum for Agricultural Science Education (CASE) (CHS only)	8035	Intro. to Agriculture, Food, and Natural Resources (AFNR)	1
	8036	Principles of Agricultural Science – Animal (ASA)	1
	8037	Animal and Plant Biotechnology	1
	8038	Agricultural Business, Research, and Development	1

8035 Introduction to Agriculture, Food, & Natural Resources

The Agriculture, Food, and Natural Resources (AFNR) course is intended to serve as the foundation course within the CASE™ program sequence. The course is structured to enable all students to have a variety of experiences that will provide an overview of the fields of agricultural science and natural resources so that students may continue through the sequence of courses in the CASE™ program. Students participating in the AFNR course will experience inquiry-based activities, projects, and problems. Students' experiences will involve the study of communication, sciences of agriculture, plants, animals, natural resources, and agricultural mechanics. While surveying the opportunities available in agriculture and natural resources, students will learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning. For example, students will work in groups to determine the efficiency and environmental impacts of fuel sources in a practical learning exercise. This course is only offered at CHS.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12

8036 Principles of Agricultural Science-Animal (ASA)

The Principles of Agricultural Science – Animal (ASA) course is the second of four courses within the CASE™ program sequence. The course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in animal science so that students may continue through the sequence of courses in the CASE™ program. Students will explore hands-on projects and activities to learn the characteristics of animal science and work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock producers, or industry personnel face in their respective careers. The knowledge and skills students develop will be used in future courses within the CASE™ program. In addition, students will understand specific connections between the Animal Science lessons SAE, FFA, and LifeKnowledge® (a curriculum for leadership and career development) components that are important for the development of an informed agricultural education student. Students will build on the skills developed in AFNR to investigate, conduct experiments, and document projects that solve real life problems. Students will communicate their solutions through reports and presentations to their peers and members of the professional community. This course is only offered at CHS.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: 8035 - Introduction to Agriculture, Food, & Natural Resources

8037 Animal and Plant Biotechnology

Animal and Plant Biotechnology, the third of four courses within the CASE program sequence, is a specialization course in the CASE Program of Study, and provides students with experiences in industry appropriate applications of biotechnology related to plant and animal agriculture. Students will complete hands-on activities, projects, and problems designed to build content knowledge and technical skills in the field of biotechnology. Student are expected to become proficient at biotechnological skills involving micropipetting, bacterial cultures and transformations, electrophoresis, and polymerase chain reaction. Students will maintain a research level Laboratory Notebook throughout the course documenting their experiences in the laboratory. Research and experimental design will be highlighted as students develop and conduct industry appropriate investigations. This course is only offered at CHS.
COURSE NOTE: Concurrent enrollment in 8036 is acceptable as well.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12
PREREQUISITE: 8035 - Introduction to Agriculture, Food, & Natural Resources (AFNR) AND 8036 - Principles of Agricultural Science-Animal (ASA). Concurrent enrollment in 8036 is acceptable.

8038 Agriculture Business, Research, and Development

The Agriculture Business, Research, and Development course, the fourth course in the CASE program, will serve as the capstone course available to students completing the program. Instruction and continued inquiry-based projects are designed to integrate key learning from previous CASE courses and have students apply them to real-world career situations through Supervised Agricultural Experience (SAE) projects or other internship/work-based learning opportunities. Students will be travelling off-site regularly in order to complete their Supervised Agricultural Experience (SAE) projects. The students will need to provide their own transportation. This course is only offered at CHS.
COURSE NOTE: Concurrent enrollment in 8037 is also acceptable.
CREDIT: 1 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: 8035 - Introduction to Agriculture, Food, & Natural Resources, 8036 - Principles of Agricultural Science-Animal (ASA) AND 8037 - Animal and Plant Biotechnology. Concurrent enrollment in 8037 is acceptable.

Electricity

Program	Course Number	Course Name	Credits
Electricity	8410	Electricity I	2
	8420	Electricity II	3

8410 Electricity I

Students who take this Level 1 course will receive their English instruction at either Calvert High School or Career and Technology Academy. This course introduces students to the theory and principles of electricity. Ohm's Law is presented and students are afforded the opportunity to apply theory to practical field wiring projects. Proper care and use of hand tools is taught in conjunction with jobsite rules and applications. The National Electrical Code is introduced as a practical wiring guideline in accordance with generally acceptable residential wiring practices. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 2 **TYPE:** Academic **GRADE:** 11

8420 Electricity II

Students continue the study of Ohm's Law and related theory of AC and DC circuitry. Students focus on the National Electrical Code and field wiring applications in the commercial construction field. This class requires a working knowledge of algebra. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 3 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Electricity I (8410).

Firefighter/Emergency Medical Tech

Program	Course Number	Course Name	Credits
Firefighter/Emergency Medical Tech	8996	Fire and Rescue A	3
	8997	Fire and Rescue B (starting 2018-2019)	3

8996 Fire and Rescue A

The Fire Fighter/Emergency Medical Tech program exists through a partnership among Maryland Fire and Rescue Institute (MFRI), Calvert County Public Schools (CCPS), and the Calvert County Department of Public Safety. 2017-2018 will be the first year that the Fire Fighter/Emergency Medical Tech program will be taught over two school years instead of one. Also, this will be the first year that the program will reside at the Career and Technology Academy instead of a local fire department. In order to complete the program, students must take each of the one year courses, Fire and Rescue A and Fire and Rescue B. The courses are structured such that students may take them in either order.

Fire and Rescue A will include Firefighter I and Firefighter II and several other MFRI courses which require Firefighter I as a prerequisite. This course includes classroom instruction as well as formal on-site training. This training will take place at the MFRI training center in LaPlata as well as at some of the fire departments in Calvert County. On days when the class attends the trainings in LaPlata, students will be transported between CTA and LaPlata by CCPS. Since on these days students will be returning to CTA later than their normal departure time, students will require a ride home from CTA.
COURSE NOTE: This program is taught at the Career & Technology Academy.
CREDIT: 3 **TYPE:** Academic **GRADE:** 11
PREREQUISITE: Students must be 16 years of age in the Fall of the year entering program. Must be able to become an active member of a Volunteer Fire Department or Rescue Squad in Calvert County.

Food Production & Management

Program	Course Number	Course Name	Credits
Food Production and Management	8510	Food Production and Management I	2
	8520	Food Production and Management II	3

8510 Food Production and Management I

Students who take this Level 1 course will receive their English instruction at either Calvert High School or Career and Technology Academy. Students are prepared for entry into careers in the growing food service industry. Professionalism and productivity are key components of the program. Commercial kitchen management, food safety and sanitation, food preparation and presentation will be emphasized. Students learn how to select, purchase, and prepare food in accordance with professional standards for freshness, sanitation and quality control; and to serve wholesome food in visually appealing displays. Students are responsible for the cost of their uniform which may be up to $50.00. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 2 **TYPE:** Academic **GRADE:** 11

8520 Food Production and Management II

After reviewing sanitation and safety requirements, students develop stronger skills in preparing sauces and soups. Baking, international cooking, cultures and garnishes as well as banquet settings and organization are also included. To further equip them for their culinary careers, students are afforded work opportunities in local food service facilities. Students are responsible for the cost of their uniform

which may be up to $50.00 It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 3 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Food Production and Management I (8510).

Graphic Arts

Program	Course Number	Course Name	Credits
Graphic Arts	8610	Graphic Arts I	2
	8620	Graphic Arts II	3

8610 Graphic Arts I

Students who take this Level I course will receive their English instruction at either Calvert High School or Career and Technology Academy. First year students in Graphic Arts learn the basic principles of design, color theory, typography and layout, as well as Digital File Preparation and Output, offset Printing Principles, and Binding and Finishing techniques. Students will learn to use the Adobe Creative Suite software package including Photoshop, InDesign, and Illustrator through use of textbook assignments. The other portion of time is spent in the lab using the equipment to print and bind projects. As a certified PrintEd program, all students will have the opportunity to take the Printed exam, which can give them national recognition in the industry. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 2 **TYPE:** Academic **GRADE:** 11

8620 Graphic Arts II

Students will take the learned skills from level I, and develop and refine design principles, and knowledge of the Adobe Creative Suite programs. They will gain understanding in color management, digital pre-press, offset printing, binding and finishing. Hands-on instruction also includes; screen printing, vinyl lettering, dye-sublimation printing, and digital photography. Level II students also learn basic web design by creating a simple multiple page website using HTML. The student's final project is a digital portfolio. Students who complete this program qualify for up to six articulated credits at the College of Southern Maryland. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year. It is also recommended that students take one of the PrintED certification tests, for more information on PrintED, go to www.gaerf.org
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 3 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Graphic Arts I (8610)

Heating, Ventilation, & Air Conditioning

Program	Course Number	Course Name	Credits
Heating, Ventilation, and Air Conditioning	8121	Heating, Ventilation, and Air Conditioning I	2
	8122	Heating, Ventilation, and Air Conditioning II	3

8121 Heating, Ventilation, Air Conditioning (HVAC) I

Students who take this Level 1 course will receive their English instruction at either Calvert High School or Career and Technology Academy. This course will cover the foundations of building and construction. Topics covered by this nationally recognized curriculum (NCCER) include basic safety, construction math, hand and power tools, blueprints, and basic rigging. A major emphasis will be placed on hands on experiences in the following HVAC areas: trade mathematics, tools of the trade, copper and plastic piping practice, soldering and brazing, ferrous metal piping practices, basic electricity, and introduction to cooling and heating. Students will sit for the construction core module assessment and the NCCT exam for HVAC. Each student is responsible for the exam fee. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 2 **TYPE:** Academic **GRADE:** 11

8122 Heating, Ventilation, Air Conditioning (HVAC) II

This course of study for HVAC level two completes the nationally recognized curriculum (NCCER) by demonstration of student mastery in the following areas: air distribution systems, chimney-vents-flues, maintenance skills for the service technician, alternating current, basic electronics, electric heating, introduction to control circuit troubleshooting, accessories and optional equipment, metering devices, compressors, heat pumps, and leaks detection-evacuation recovery-charging. A major emphasis will be placed upon concepts which include planned maintenance and troubleshooting (gas heating, electrical heating, oil heating, cooling, heat pumps, accessories, and electronic controls). Students are required to take the NCCT exam for HVAC as part of successful course completion. Each student is responsible for the exam fee. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 3 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Successful completion of Heating, Ventilation, Air Conditioning I (8121) with a grade of 70% or higher and teacher recommendation.

Home Improvement

Program	Course Number	Course Name	Credits
Home Improvement	8870	Home Improvement I	2
	8880	Home Improvement II	3

8870 Home Improvement I

Students who take this Level 1 course will receive their English instruction at either Calvert High School or Career and Technology Academy. Students acquire competencies in various technical trades. They receive instruction in the basic maintenance and repair skills required to service major mechanical appliances and building air conditioning, heating, plumbing, electrical, and other systems. Students are taught how to apply technical knowledge and skills to keep a building functioning and to service a variety of commercial, industrial, and mobile structures. This course assists students in preparation to be building property maintenance technicians and/or managers. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 2 **TYPE:** Academic **GRADE:** 11

8880 Home Improvement II

Students will continue to perform competencies in various technical trades such as Carpentry, Plumbing/Heating/Air Conditioning, Electricity and Masonry. They will be provided with the skills and related information necessary to service a variety of commercial, industrial and mobile structures. A student who is a completer in Home Improvement has the entry level skills to maintain a building. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 3 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Successful completion of Home Improvement I (8870).

Masonry

Program	Course Number	Course Name	Credits
Masonry	8710	Masonry I	2
	8720	Masonry II	3

8710 Masonry I

Students who take this Level 1 course will receive their English instruction at either Calvert High School or Career and Technology Academy. Students prepare for entry-level masonry jobs in residential and commercial construction and repair. Students learn to properly identify and use the materials and tools of the trade. Skills taught in this class include the building of foundations, laying of brick, block and tile, construction of various types of walls, as well as proper cleaning of masonry work. This course also teaches students how to read a basic set of plans.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 2 **TYPE:** Academic **GRADE:** 11

8720 Masonry II

Students are given the opportunity to refine previously learned bricklaying skills at the house construction site. Some instruction in reading blueprints and following construction codes is provided. A student who successfully completes Masonry I (8710) and this course should have acquired sufficient skills to secure an entry-level position as a bricklayer's helper. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 3 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Masonry I (8710).

Plumbing

Program	Course Number	Course Name	Credits
Plumbing	8111	Plumbing I	2
	8112	Plumbing II	3

8111 Plumbing I

Students who take this Level 1 course will receive their English instruction at either Calvert High School or Career and Technology Academy. This course will cover the foundations of building and construction. Topics covered by this nationally recognized curriculum (NCCER) include basic safety, construction math, hand and power tools, blueprints, and basic rigging. A major emphasis will be placed on hands on experiences in the following plumbing areas: plumbing tools, plumbing drawings and math, pipes and

fitting (plastic, copper, cast-iron, and carbon steel), fixtures and faucets, water distribution systems, and drain-waste-vent (DWV) systems. Students will sit for the construction core module assessment and the NCCT exam for plumbing. Each student is responsible for the exam fee. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 2 **TYPE:** Academic **GRADE:** 11

8112 Plumbing II

This course of study for plumbing level two completes the nationally recognized NCCER curriculum by demonstration of student mastery in the following areas: intermediate and applied math, reading commercial drawings, installing and testing (DWV piping, roof-floor-area drains, types of valves, water supply piping, fixtures-valves-faucets, and water heaters), fuel gas systems, and servicing of fixures-values-faucets. A major emphasis will be placed upon concepts which include building codes, types of venting, and sizing water supply piping. Students are required to take the NCCT exam for plumbing as part of successful course completion. Each student is responsible for the exam fee. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 3 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: 8111 – Plumbing I with a grade of 70% or higher and teacher recommendation.

Project Lead The Way-Biomedical Sciences

Program	Course Number	Course Name	Credits
Project Lead the Way – Biomedical Sciences	8025	Principles of Biomedical Sciences	1
	8026	Human Body Systems	1
	8027	Medical Interventions	1
	8028	Biomedical Innovation	1

8025 Principles of the Biomedical Sciences

Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that may have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, research processes and bioinformatics. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses.
COURSE NOTE: Successful completion of or concurrent enrollment in Biology.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12 **NCAA**
PREREQUISITE: Successful completion or concurrent enrollment in Biology.

8026 Human Body Systems

Students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12 **NCAA**
PREREQUISITE: Successful completion of 8025 Principles of Biomedical Sciences.

8027 Medical Interventions

Students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body. Students explore how to prevent and fight infection; screen and evaluate the code in human DNA; prevent, diagnose and treat cancer; and prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of 8026 Human Body Systems.

8028 Biomedical Innovation

In this capstone course, students apply their knowledge and skills to answer questions to solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician's office, or industry. Throughout the course students are expected to present their work to an adult audience that may include representatives from the local business and health care community.
CREDIT: 1 **TYPE:** Academic **GRADE:** 12 **NCAA**
PREREQUISITE: 8025 - Principles of the Biomedical Sciences **or** 8026 - Human Body Systems **or** 8027 - Medical Interventions

Project Lead The Way-Pathway to Engineering

Program	Course Number	Course Name	Credits
Project Lead the Way – Pathway to Engineering	8005	Introduction to Engineering Design (Prerequisite course)	1
	8006	Principles of Engineering	1
	8007	Digital Electronics	1
	8008	Aerospace Engineering	1
	8009	Engineering Design and Development	1

8005 Introduction to Engineering Design

This foundation course emphasizes the development of a design. Students use computer software to produce, analyze and evaluate models of projects solutions. They study the design concepts of form and function, then use state-of-the-art technology to translate conceptual design into reproducible products.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Successful completion of or concurrent enrollment in Algebra I.

8006 Principles of Engineering

This foundation course provides an overview of engineering and engineering technology. Students develop problem-solving skills by tackling real-world engineering problems. Through theory and practical hands-on experiences, students address the emerging social and political consequences of technological change.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12 **NCAA**
PREREQUISITE: Successful completion of Introduction to Engineering Design (8005) and successful completion of or concurrent enrollment in Geometry.

8007 Digital Electronics

This foundation course introduces students to applied digital logic, a key element of careers in engineering and engineering technology. This course explores the smart circuits found in watches, calculators, video games and computers. Students use industry-standard computer software in testing

and analyzing digital circuitry. They design circuits to solve problems, export their designs to a printed circuit auto-routing program that generates printed circuit boards, and use appropriate components to build their designs. Students use mathematics and science in solving real-world engineering problems.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of Principles of Engineering (8006) and successful completion of or concurrent enrollment in Algebra 2.

8008 Aerospace Engineering

The pathway course introduces students to the world of aeronautics, flight, and engineering. Students in this course will apply scientific and engineering concepts to design materials and processes that directly measure, repair, improve, and extend systems in different environments.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of Principles of Engineering (8006) and successful completion of or concurrent enrollment in Algebra 2.

8009 Engineering Design and Development

In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel. This course is appropriate for 12th grade students.
CREDIT: 1 **TYPE:** Academic **GRADE:** 12 **NCAA**
PREREQUISITE: Successful completion of Digital Electronics (8006) and Aerospace Engineering (8007) and successful completion of or concurrent enrollment in Precalculus.

Teacher Academy of Maryland (TAM)

Program	Course Number	Course Name	Credits
Teacher Academy of Maryland (TAM)	5500	Human Growth and Development through Adolescence	1
	5510	Teaching as a Profession	1
	5520	Foundations of Curriculum and Instruction	1
	5530	Education Academy Internship	1

CCPS has articulation agreements with several universities which result in students receiving three college credits for completing the TAM program. In order to be eligible for these credits, students must achieve an 80% or better in each of the four courses listed below and enroll in that particular university.

5500 Human Growth and Development Through Adolescence

This is an exciting first course in the Teacher Academy of Maryland (TAM) program because it appeals directly to what gets most prospective teachers interested in an education career – the joy of working with children. It is also a course that appeals to something fundamental to adolescents – studying and understanding themselves. This course focuses on human development from birth through adolescence. Emphasis is placed on theories of physical, cognitive, and psychosocial development, the effect of heredity and the environment, the role of caregivers and the family, health and safety concerns, and contemporary issues. Students explore special challenges to growth and development. Students will have opportunities for guided observation of children from birth through adolescence in a variety of settings to help students further understand theories of human development. Students will begin to develop the components of a working portfolio to be assembled upon completion of the internship.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12

5510 Teaching as a Profession

This is the second course in the Teacher Academy of Maryland (TAM) program. The course focuses on the profession of teaching - its history, purposes, issues, ethics, laws and regulations, roles, and qualifications. Emphasis is placed on identifying the current, historical, philosophical and social perspectives of American education, including trends and issues. Students will explore major approaches to human learning. Students will participate in guided observations and field experiences in multiple settings to help them assess their personal interest in pursuing careers in this field and to identify effective learning environments. Students will continue to develop the components of a working portfolio to be assembled upon completion of the internship.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12
PREREQUISITE: Successful completion of or concurrent enrollment in 5500 Human Growth and Development through Adolescence.

5520 Foundations of Curriculum and Instruction

This course explores curriculum delivery models in response to the developmental needs of all children. Emphasis is placed on the development of varied instructional materials and activities to promote learning, classroom management strategies, and a supportive classroom environment. Students will explore basic theories of motivation that increase learning. Students will participate in guided observations and field experiences to critique classroom lessons in preparation for developing and implementing their own. Students will continue to develop the components of a working portfolio to be assembled upon completion of the internship.
CREDIT: 1 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Successful completion of Human Growth and Development Through Adolescence (5500) AND Teaching as a Profession (5510).

5530 Education Academy Internship

The internship is the culminating course of the Education Academy 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. This internship may be with a teacher in their school or a neighboring elementary or middle school. The students will complete their working portfolio and present it for critique. Students are responsible for providing their own transportation to and from their internship.
CREDIT: 1 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Successful completion of 5500-Human Growth and Development Through Adolescence AND 5510-Teaching as a Profession.

Welding

Program	Course Number	Course Name	Credits
Welding	8910	Welding I	2
	8920	Welding II	3

8910 Welding I

Students who take this Level 1 course will receive their English instruction at either Calvert High School or Career and Technology Academy. Students are introduced to the welding industry through basic units in welding safety, shielded metal-arc welding, oxyacetylene cutting, and the operation of related power equipment. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 2 **TYPE:** Academic **GRADE:** 11

8920 Welding II

Students are introduced to structural arc welding, innershield welding, gas arc welding (MIG), gas tungsten arc welding (TIG), and plasma cutting. Students who complete this program have the opportunity to earn AWS certification. Emphasis is upon the inspection and testing of welds, repair welding, fabrication and project construction, low pressure pipe welding, and aluminum and stainless steel welding. Students may acquire structural welding certification. It is strongly recommended that students join SkillsUSA in the amount of $10.00 (annual dues), which enables students the opportunity to compete in a skill or trade at SkillsUSA competitions held throughout the year.
COURSE NOTE: This course is taught at the Career & Technology Academy.
CREDIT: 3 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Welding I (8910).

Business Education

5000 Principles of Business Administration and Management

This is a required course in all four Business, Management, and Finance pathways. In this course you will learn the basic principles surrounding economics, management, marketing, accounting, business ethics, business law, business communication, and careers in business. Enjoy many on-line learning programs, listen to and learn from motivational guest speakers representing various fields in business.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12

5010 Business Mathematics

Students will learn techniques to manage their cash, to make money by investing, and to make informed decisions regarding the purchase and operation of cars and homes. Students will also be introduced to topics such as insurance, banking, and debt management. They will gain the math skills necessary to confidently manage the challenges of everyday life. This class is offered through the business department and counts as a mathematics credit for graduation.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: Two credits in mathematics or one credit in Comprehensive Algebra (3123) or Academic Algebra 1 (3125).

5020 Computer Applications

Computer Applications will provide students with the knowledge and skills to become competent computer operators. Students will become proficient in touch keyboarding skills. They will also become proficient in Microsoft Word, a popular word processing program. Students will apply this knowledge by producing a variety of professional and personal documents that will be used in students' college educations, future careers, and personal lives. Students will be able to use various types of computer hardware and software. Students will also create a basic web page using HTML programming language. Students will review standard grammar usage and will develop proofreading and editing techniques that will enable the student to compose, organize and edit documents.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12

5030/5035 Office Systems Management (Word/PowerPoint)

The Office Systems Management (Word/PowerPoint) course provides students with a study of advanced business practices, information systems and computer applications. Students develop managerial and technical skills for business support operations through applied learning. Problem-solving skill development is incorporated throughout the course. Competencies include: applying emerging technologies in order to complete appropriate office operations; using advanced desktop publishing and word processing software in order to create business documents and professional presentations; exhibiting appropriate interpersonal knowledge of acceptable values and behaviors in order to become ethically responsible employees and developing an appreciation of diversity in the workplace. Industry standard office equipment and Microsoft Office software will be used in this course. When students complete this course, they will be able to obtain the advanced competencies to take the Microsoft Office Specialist exam for industry certification in MS Word and/or MS PowerPoint.
COURSE NOTE: Students wishing to complete the Business Administrative Services pathway should register for 5030. Students who are not planning on completing the Business Administrative Services pathway should register for 5035.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12

5045 Leadership and Communications in Business

Students will demonstrate knowledge of acceptable business behaviors in order to become ethically responsible employees. Emphasis in this course will be placed on effective oral and written business communication skills, developing effective presentations, improving public speaking skills, and other business practices. These activities will enhance the student's leadership abilities through simulated business and interpersonal teamwork activities.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12

5050 Principles of Accounting

This is a required course in all four Business, Management, and Finance pathways. This course provides students with the skills and knowledge necessary to manage and maintain a small company's financial resources in daily operating decisions. Students will learn to apply generally accepted accounting principles to determine the value of assets, liabilities, and owner's equity as they apply to various forms of business ownership. In addition, students will prepare, interpret, and analyze financial statements using manual and computerized systems for service and merchandising businesses. Upon completion of the course, students will also have a good understanding of payroll, payroll and sales tax liabilities and have the skills to manage a business checking account.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12

5060/5065 Advanced Accounting

This course explores methods for using accounting data in planning, controlling, predicting, and evaluating business initiatives. Students learn to make business decisions which integrate tools such as cash flow analysis, cost, accounting, cost volume profit analysis, budgeting, and other quantitative methods. Software will be used to apply accounting principles learned in this class. This course will prepare students to enter the workforce and provide the tools for success in college. This course, along with Accounting I, is articulated with the College of Southern Maryland.
COURSE NOTE: Students wishing to complete the Accounting pathway should register for 5060. Students who are not planning on completing the Accounting pathway should register for 5065.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12
PREREQUISITE: Successful completion of both Principles of Business Administration and Management (5000) AND Principles of Accounting (5050) with a 70% or higher.

5061 College Accounting

This course is designed for students who have successfully completed two years of accounting. Students will learn advanced accounting concepts such as depreciation, uncollectible accounts, corporate accounting, manufacturing accounting, non-profit accounting, partnership assessment and accounting, as well as increased emphasis on and knowledge of the complete accounting cycle. Software will accompany the course.
CREDIT: 1 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Successful completion of Accounting I (5050) and Advanced Accounting (5060) with a grade of 70% or higher.

5067 Business Capstone-Accounting

The Capstone course will provide instruction on managing projects, creating business plans, conducting research, and utilizing electronic tools. Students will then personally design an independently conducted activity, or Capstone project, that enables them to further their expertise of accounting. This Capstone project offers an opportunity to think critically about a subject of interest while demonstrating mastery and application of the skills and knowledge within a particular content area. The course culminates with a presentation of the students' Capstone projects. This course prepares students to pass the College Board's CLEP (College Level Examination Program) exam in Financial Accounting. The CLEP exam is recognized by close to 3,000 colleges and universities nationwide. Students earn three college credits by passing this exam. The College of Southern Maryland (CSM) provides access to the CLEP exams. There is a fee required to take this exam at CSM. More information is available about the CLEP exam at www.collegeboard.org/clep. Students who enroll in this course are required to purchase a CLEP exam preparation book.
CREDIT: 1 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Successful completion of and/or concurrent enrollment in: 5000 Principles of Business Administration and Management, 5050 Principles of Accounting, and 5060 Advanced Accounting.

5070/5075 Principles of Finance/Financial Planning

This course introduces students to the multifaceted world of banking and other financial services companies. It begins with an introduction of the origins of money and banking, and explores the early history of banking in the United States. Students then move into an in-depth study of the financial services industry and investigate the types of companies that make up the industry. The role of the Federal Reserve System, functions of credit and borrowing, and the impact they play in regards to our economy are discussed. Employment opportunities within the industry are researched with a focus on ethics in the banking industry. The second half of the course focuses on the importance of personal financial planning, and how people reach their life goals through sound financial management. Key concentration areas covered are: preparing a budget, credit, borrowing, saving, investing, and risk management through insurance. It is recommended that students participate in the spring session of the Stock Market Game. This course satisfies the graduation requirement in Financial Literacy.
COURSE NOTE: Students wishing to complete the Academy of Finance pathway should register for 5070. Students who are not planning on completing the Academy of Finance pathway should register for 5075.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: For students wishing to complete the Academy of Finance pathway, the prerequisites are successful completion with a 70% or better or concurrent enrollment in 5000 Principles of Business Administration and Management and 5050 Principles of Accounting. For students who are not wishing to complete the Academy of Finance Pathway and are taking 5075 in order to fulfill their Financial Literacy graduation requirement, there is no prerequisite.

5080 Economics

Economics is a social science that analyzes the production, distribution and consumption of goods and services and the allocation of scarce resources. This course will focus on microeconomic issues such as scarcity, supply, demand, market structures, competition, the profit motive, and the types of economic systems found in most nations of the world today. Macroeconomic issues such as gross domestic product, inflation, unemployment, the role of government in the economy, fiscal policy, and monetary policy will also be explored. The course follows the 20 standards in economics as defined by the National Council on Economic Education. Students will also delve into global economic issues. This course helps students improve their decision making, become more informed citizens, and they will understand the complex issues surrounding them in the world today.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12
PREREQUISITE: Successful completion of Comprehensive Algebra (3123) or Academic Algebra 1 (3125) with a grade of 70% or higher.

5100 Office Systems Management (Excel/Access)

The Office Systems Management (Excel/Access) course provides students with a study of advanced skills using Microsoft's leading business productivity software to create spreadsheets and databases. Students will be expected to think analytically, manipulate information, and use the computer as a productivity tool through integrated application programs. Expertise in technology will contribute to students' future career mobility, advancement potential, compensation and job satisfaction. Industry standard office equipment and Microsoft Office software will be used in this course. When students complete this course, they will be able to obtain the advanced competencies to take the Microsoft Office Specialist exam for industry certification in MS Excel and/or MS Access.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12

5120 Marketing Education I

Products, pricing, place, and promotion - that's marketing. Students will examine strategies for successfully targeting the marketing process in this yearlong course. Topics covered range from inventory and advertising to displaying promotions and managing a business. Real-life simulations allow students to put their marketing and other business skills to the test. Good customer service and professional human relations with fellow workers will be emphasized throughout the course.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12

5125 Advanced Marketing

Advanced Marketing builds on all concepts studied in Marketing I by providing the students with in-depth, comprehensive project-based learning opportunities. Students will use interpersonal skills, technology, and knowledge gained from business courses to develop a marketing plan. This course is designed to engage students in real-world experiences while expanding their knowledge of marketing.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12
PREREQUISITE: 5120 - Marketing Education I

5160/5165 Advanced Business Management

This course explores advanced topics such as major management theories and functions, operational aspects of management, human resource management, production management, accounting and marketing management, and international management. In this course, students will prepare a formal business plan for a small, service-based or goods-based business. This course prepares students to pass the College Board's CLEP (College Level Examination Program) exam in Principles of Management. The CLEP exam is recognized by close to 3,000 colleges and universities nationwide. Students earn three college credits by passing this exam. There is an $80 test fee and a $25 sitting fee required to take the exam at the College of Southern Maryland. More information is available about the CLEP exam at www.collegeboard.org/clep.
COURSE NOTE: Students wishing to complete the Business Management pathway should register for 5160. Students who are not planning on completing the Business Management pathway should register for 5165.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12
PREREQUISITE: Successful completion of both 5000 Principles of Business Management and 5050 Principles of Accounting with a 70% or higher.

5167 Business Capstone-Business Management

The Capstone course will provide instruction on managing projects, creating business plans, conducting research, and utilizing electronic tools. Students will then personally design an independently conducted activity, or Capstone project, that enables them to further their expertise of business management. This Capstone project offers an opportunity to think critically about a subject of interest while demonstrating mastery and application of the skills and knowledge within a particular content area. The course culminates with a presentation of the students' Capstone projects. This course prepares students to pass the College Board's CLEP (College Level Examination Program) exam in Principles of Management. The CLEP exam is recognized by close to 3,000 colleges and universities nationwide. Students earn three college credits by passing this exam. The College of Southern Maryland (CSM) provides access to the CLEP exams. There is a fee required to take this exam at CSM. More information is available about the CLEP exam at www.collegeboard.org/clep. Students who enroll in this course are required to purchase a CLEP exam preparation book.
CREDIT: 1 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Successful completion of and/or concurrent enrollment in: 5000 Principles of Business Administration and Management, 5050 Principles of Accounting, and 5160 Advanced Business Management.

5179 AP Microeconomics

The purpose of an AP course in Microeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course 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. There is no single approach that an AP Microeconomics course is expected to follow. Whatever the approach, however, AP teachers are advised to take into account certain topics generally covered in college courses. The following topics will be explored: basic economical concepts, nature and functions of product markets, factor markets, market failure and role of the government. It is the expectation that all students that enroll in this course sit for the exam. Students

may incur additional costs associated with field trips as planned by the instructor. The cost of the AP exam is at the student's expense. This course will be offered depending on enrollment.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12
PREREQUISITE: Instructor's approval.

5230S/5230So Financial Literacy: Money Management

This course is being offered in a face-to-face or online environment.
The Financial Literacy: Money Management Course represents those standards of learning that are essential and necessary for all students. The implementation of the ideas, concepts, knowledge, and skills contained in the Financial Literacy: Money Management Course will enable students to implement those decision-making skills they must apply and use to become wise and knowledgeable consumers, savers, investors, users of credit, money managers, citizens, and members of a global workforce and society. The General Financial Literacy Course will incorporate concepts and skills from mathematics, language arts, social studies, applied technology, character education, and applied service learning. Using a "hands-on" instructional approach involving techniques such as problem solving, reasoning, simulation, and direct application of the concepts of this course to the world in which students live will empower them to incorporate the concepts of the General Financial Core into their lives.
Students wishing to take this course online should use course number 5230So. Students taking this course online will have required face to face meetings that will occur after school or on Saturdays. There will be six scheduled meetings and students will be required to attend at least four.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 10-12

5240S Computer Keyboarding for College and Careers

This course is for students who are either in a college preparatory pathway or a technical preparation pathway leading to postsecondary studies or career placement. Computer Keyboarding for College and Careers will provide students with the knowledge and skills to become competent computer operators. Students will become proficient in touch keyboarding and word processing skills. These skills will be used to produce a variety of professional and personal documents that can be used in college, future careers and the students' personal lives.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 9-12

Computer Science

Computer science courses are intended to provide students with the knowledge and skills necessary to effectively use computers. The computer science program offers students experiences in the study of computers and their capabilities, computer languages, programming techniques, problem solving skills and the use of the computer and appropriate software as a problem solving tool. The courses are offered on an elective basis.

3505/3505o Foundations of Computer Science

This course is being offered in a face-to-face or online environment.
This course is designed to introduce students to the field of computer science through an exploration of the conceptual ideas of computing. The course will help students understand why certain software tools and programming languages are utilized to solve particular problems. The goal is to develop in students the computational thinking practices of algorithm development, problem solving and programming within the context of real world challenges relevant to the rapidly changing world of 21st century computing. Students will also be introduced to topics such as interface design, limits of computers and societal and ethical issues.
As a result of this course, students will develop the knowledge, skills, and abilities to perform the following computational practices:

- Describe and analyze the effects of developments in computing, including the role of Cyber Security;
- Design and implement creative solutions and artifacts to solve real-world problems;
- Apply abstractions and models using appropriate programming languages;
- Analyze their computational work and the work of others to determine effectiveness in meeting client needs;
- Connect computation with other disciplines and the role of Information Technology (IT) professionals;
- Communicate thought processes (used in development) and results (product review); and
- Work effectively in teams to identify and develop computing solutions.

Foundations of Computer Science is the first course of a four course Career and Technology Education program of study called Computer Science. Depending on which high school they attend, students wishing to complete this program may do so at the CTA or their regular high school. This course meets the graduation requirement for Technology Education.
Use course number 3505o if you wish to take this course online.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12

3506 AP Computer Science Principles

This course advances students' understanding of the technical aspects of computing including: programming and algorithm design, computer system organization and operation, and data representation and information organization. Specific programming languages may include Processing, C++, and Java.
As a result of this course, students will:
Demonstrate proficiency in programming and algorithm design that requires the use of data abstraction to solve basic programming problems in multiple (or single) programming paradigms;

- Analyze computer systems including components, organization, and operation;
- Demonstrate in-depth knowledge of how computer systems work individually and collectively;
- Apply principles of data representation and information organization at the machine level for program analysis;
- Apply principles of data representation and information organization at the data structure level for program implementation;
- Apply principles of data representation and information organization at the problem representation and files and database levels for solution design;
- Analyze the interaction amongst systems for people for overall system design and effectiveness;
- Work effectively in teams in collaborative software development.

This course is the second course of a four course Career and Technology Education program of study called Computer Science. Depending on which school they attend, students who wish to complete this program may do so at the CTA in 11th and 12th grade.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 10-12
PREREQUISITE: 3505 - Foundations of Computer Science

3510 Programming in JAVA

Primarily for college preparatory students, this lab-oriented course is designed to extend students' knowledge about computers, computer systems, and the processing of information. Students study programming in the JAVA language. Topics include input/output, functions, procedures, arrays, files, searches, sorts, and string manipulation.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Successful completion of Algebra I.

3519 AP Computer Science Coding

Students are taught how to write logically structured, well-documented computer programs. Major course emphases are programming methodology, algorithms, and data structures. Computer systems and the social implications of computing are also examined. The programming language used is JAVA, which is the only language employed on the Advanced Placement Computer Science examination. Since documentation plays a central role in this course, students must have good written communication skills. Similarly, prior to enrollment, students should be able to structure and develop a topic in a logical manner. Taught at the college level, this course affords advanced students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of many colleges or universities which recognize students' participation in the College Board's Advanced Placement Program. Students who enroll in this course are not required to take the national Advanced Placement examination. However, this course does prepare them for the "A" version of the Advanced Placement Computer Science examination. Students who complete an Advanced Placement course shall receive a weighted grade.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 10-12
PREREQUISITE: Successful completion of Academic Algebra 2 (3135) and either Programming in JAVA (3510) or AP Computer Science Principles (3506) with a grade of 80% or higher and teacher recommendation.

English

Summer Reading Requirements

Students will be given information about completing a summer reading assignment at the end of the school year. Teachers will provide the information, and it will be outlined on www.calvertnet.k12.md.us under the Parent Tab.

Grade 9 Required Courses

Students entering Grade 9 must complete one of the following courses. Placement in Honors English 9 (1107) is determined primarily by performance in previous courses and teachers' recommendations.

1104 English 9

This course is designed to offer students experiences in reading and analyzing both literature and literary nonfiction texts. Students will also learn to write both informational and argument essays, as well as some narrative compositions and research assignments. Reading, writing, language, and speaking/listening skills are taught through thematic integrated units aligned with the Maryland College and Career-Ready (MCCR) Standards. This course is designed to help students prepare for the PARCC Assessments in English. Students will be given information about completing a summer reading assignment at the end of the school year. Teachers will provide the information, and it will be outlined on www.calvertnet.k12.md.us (under the Parent Tab).
CREDIT: 1 **TYPE:** Academic **GRADE:** 9 **NCAA**

1107 Honors English 9

This course is designed to offer students experiences in deep analysis of both literature and literary nonfiction texts, as well as composing narrative, informational, and argument writing. Rhetorical techniques and stylistic devices are studied, and research is emphasized. Thematic units of study aligned with the Maryland College and Career-Ready (MCCR) Standards integrate reading, writing, language, and speaking/listening skills and processes. This course is designed to help students prepare for the PARCC Assessment in English. Students will be given information about completing a summer reading assignment at the end of the school year. Teachers will provide the information, and it will be outlined on www.calvertnet.k12.md.us (under the Parent Tab).
CREDIT: 1 **TYPE:** Honors **GRADE:** 9 **NCAA**

Grade 10 Required Courses

Students entering Grade 10 must complete one of the following courses. Placement in Honors English 10 (1207) is determined primarily by performance in previous courses and teachers' recommendations. One credit in a required ninth-grade English course is a prerequisite for admission to a required tenth grade English course.

1204 English 10

This course focuses on the further development of analysis and interpretation of different types of literary works and literary nonfiction, and the writing of narrative, informational, and argument texts. Research processes and skills are emphasized. Reading, writing, language, and speaking/listening skills are presented through thematic integrated units aligned with the Maryland College and Career-Ready (MCCR) Standards. This course is designed to prepare students for the PARCC Assessment in English 10. Students will be given information about completing a summer reading assignment at the end of the school year. Teachers will provide the information, and it will be outlined on www.calvertnet.k12.md.us (under the Parent Tab).
CREDIT: 1 **TYPE:** Academic **GRADE:** 10 **NCAA**

1207 Honors English 10

Different types of complex literary works and literary nonfiction are read and analyzed closely. Composition assignments and research activities focus on various types of writing and rhetorical situations. Reading, writing, language, and speaking/listening skills and processes are presented through

integrated thematic units aligned with the Maryland College and Career-Ready (MCCR) Standards. This course is designed to prepare students for the PARCC Assessment in English 10. Students will be given information about completing a summer reading assignment at the end of the school year. Teachers will provide the information, and it will be outlined on www.calvertnet.k12.md.us (under the Parent Tab).
CREDIT: 1 **TYPE:** Honors **GRADE:** 10 **NCAA**

Grade 11 Required Courses

Students entering Grade 11 must complete one of the following courses. Placement in Honors English 11 (1307) and AP English Language and Composition (1309) is determined primarily by performance in previous courses and teachers' recommendations. One credit in a required tenth-grade English course is a prerequisite for admission to a required eleventh-grade English course.

1304 English 11

In addition to literature and literary nonfiction works, foundational U.S. documents are examined and analyzed. The development of composition skills continues to focus on informational, narrative, and argument writing and research. The study of language supports building skills necessary for the SAT. Reading, writing, language, and speaking/listening skills are presented through integrated thematic units of study aligned with the Maryland College and Career-Ready (MCCR) Standards. Students will be given information about completing a summer reading assignment at the end of the school year. Teachers will provide the information, and it will be outlined on www.calvertnet.k12.md.us (under the Parent Tab).
CREDIT: 1 **TYPE:** Academic **GRADE:** 11 **NCAA**

1307 Honors English 11

Foundational U.S. documents, multicultural literature, and literary nonfiction are analyzed closely for content and style. Students explore various rhetorical components of informational, narrative, and argument writing. Daily routine writing and elements of research are practiced. The study of language supports building skills necessary for the SAT. Reading, writing, language, and speaking/listening skills are presented through integrated thematic units aligned with the Maryland College and Career-Ready (MCCR) Standards. Students will be given information about completing a summer reading assignment at the end of the school year. Teachers will provide the information, and it will be outlined on www.calvertnet.k12.md.us (under the Parent Tab).
CREDIT: 1 **TYPE:** Honors **GRADE:** 11 **NCAA**

1309/1309o Advanced Placement English Language and Composition

This course is being offered in a face-to-face or online environment.
This course prepares students for the College Board's Advanced Placement Examination in English Language and Composition through a college-level class. Emphasis is on the analysis of rhetorical devices employed in nonfiction, including essays, articles, and speeches. Students continually write timed and un-timed essays on a variety of subjects. In addition to a weighted grade and the possibility of receiving college credit, students who successfully complete this course will earn their required high school English credit. Taught at the college level, this course affords advanced eleventh and twelfth grade students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of the many colleges or universities which recognize students' participation in the College Board's Advanced Placement Program. Students who complete an Advanced Placement course shall receive a weighted grade. Students will be given information about completing a summer reading assignment at the end of the school year. Teachers will provide the information, and it will be outlined on www.calvertnet.k12.md.us (under the Parent Tab).
Use course number 1309o if you wish to take this course online.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12 **NCAA**
PREREQUISITE: Attainment of a grade of 80% or higher average in all prior required English courses, enrollment in Honors English during the prior school year, and the recommendation of the most recent departmental instructor.

Grade 12 Required Courses

Students entering Grade 12 must complete one of the following courses. Placement in Composition & Rhetoric (1406), Advanced Placement English Language and Composition (1309), and Advanced Placement English Literature and Composition (1409) is determined primarily by performance in previous courses and teachers' recommendations.

Students in their fourth year may concurrently enroll in two required English classes.

1404 College and Career Ready English 12

Students will study fiction and informational works from several literary periods while continuing to develop and refine their writing skills in informational, narrative, and argument writing. Several writings in various modes will be required. Reading, writing, language, speaking and listening skills will be taught through thematic units aligned with the Maryland College and Career-Ready (MCCR) Standards. Students will be given information about completing a summer reading assignment at the end of the school year. Teachers will provide the information, and it will be outlined on www.calvertnet.k12.md.us (under the Parent Tab).
CREDIT: 1 **TYPE:** Academic **GRADE:** 12 **NCAA**

1406 Honors Composition and Rhetoric

The focus for this course is the refinement of students' writing skills in composing college-level essays. During the first semester, students will receive further assistance in developing their critical reading and comprehension skills. During the second semester, students will focus on planning, organizing and developing a variety of compositions. In addition to enhancing their literacy skills, students will also refine their research and documentation techniques. The rigor and delivery of instruction for this course will mirror that of a community college course, and textbooks will be those used at the College of Southern Maryland. Students who successfully complete the first semester of this course, as determined by class performance and College of Southern Maryland requirements, will be given the opportunity in the second semester to register for dual enrollment with the College of Southern Maryland at a reduced rate for their version of a parallel course. Students who choose this option will earn CSM college credits for successful completion of the second semester course. Students will be given information about completing a summer reading assignment at the end of the school year. Teachers will provide the information, and it will be outlined on www.calvertnet.k12.md.us (under the Parent Tab).
CREDIT: 1 **TYPE:** Academic **GRADE:** 12 **NCAA**
PREREQUISITE: Completion of English 11

1409/1409o Advanced Placement English Literature and Composition

This course is being offered in a face-to-face or online environment.
An intense examination of English literature, from the Anglo-Saxon period to the present, is conducted. Prominent literary movements are studied. In addition to lyrics, satires, and essays, novels by Dickens, and Hardy, and dramas by Sophocles, Shakespeare, Shaw, and Beckett are read. Advanced techniques of analytical writing are taught. Composition assignments include themes in which tone, prosody, and style are analyzed. Students will be given information about completing a summer reading assignment at the end of the school year. Teachers will provide the information, and it will be outlined on www.calvertnet.k12.md.us (under the Parent Tab). Taught at the college level, this course affords advanced twelfth-grade students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of many colleges or universities which recognize students' participation in the College Board's Advanced Placement Program. Students who complete an Advanced Placement course shall receive a weighted grade. Students are required to complete summer reading for the course. Use course number 1409o if you wish to take this course online.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 12 **NCAA**
PREREQUISITE: Attainment of a grade of 80% or higher average in all prior required English courses, enrollment in Honors English during the prior school year, and the recommendation of the most recent departmental instructor.

1500 Journalism I

Students receive an introduction to the organization and function of all aspects of the media, including newspapers, magazines, yearbooks, the Internet and broadcasting. Specific instruction is given in interviewing, researching, and writing news stories, sports stories, feature stories, editorials and entertainment reviews. Copy editing, advertising, broadcasting and principles of publication design and production are covered. Attention is given to the ethics and law of the media. Some practical experience in scholastic journalism may be included. The course is a prerequisite to joining the school newspaper, yearbook or broadcasting staffs.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Successful completion of an eighth grade English Language Arts course with a grade of C or higher.

1510 Journalism II: Broadcasting

This class produces the daily in-school television news and information program. Students learn concepts and skills in television production through classroom instruction and hands-on work in a laboratory setting. Experiences include script writing, video photography, videotape editing, directing, performing, reporting and producing a daily television news and information program. Students are graded for performing all roles in the production and for taped reports and other material prepared for the program. Students are responsible for all aspects in the creation of the broadcast.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: Successful completion of Journalism I (1500) or Theatre I (6500) or instructor's recommendation.

1520 Journalism II: Newspaper

Students receive both theoretical training and practical experience in journalism through the production of the school newspaper. Experiences include news writing, feature-story writing, sports writing, interviewing, word processing, creating layouts using desktop publishing software, proofreading and editing copy using computers, taking and scanning photographs and using digital photo software to edit and process photos. Students assign stories, research them, input them into computers, take digital photos, create camera-ready layout pages for the publication, and are responsible for all aspects of operating the newspaper.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: Successful completion of Journalism I (1500) or instructor's recommendation.

1530 Journalism II: Yearbook

Students receive both theoretical training and practical experience in journalism through the production of the school yearbook. Opportunities are provided for experiences in writing copy for the publication, interviewing, word processing, creating layouts using desktop publishing software, proofreading and editing copy using computers, taking and scanning photographs and using digital photo software, business, advertising, promotion and publication management. Students are assigned pages and sections of the book, input materials into computers, take photos, create camera-ready layout pages for the publication, and are responsible for all aspects of creating the yearbook.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: Successful completion of Journalism I (1500) or instructor's recommendation.

1540 Journalism III: Advanced Broadcasting

Students gain knowledge and experience in broadcast journalism by serving as editorial leaders of the daily in-school television news and information program. Students learn concepts and skills in television production through classroom instruction and hands-on work in a laboratory setting. Experiences include writing and editing the daily script, planning and overseeing video photography, videotape editing, directing, performing, reporting and producing a daily television news and information program. Students organize and oversee all aspects of the production including creation of taped reports and other material for the program. This course may be taken a second time, but the granting of credit is contingent upon continuous growth in the subject.

CREDIT: 1 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Successful completion of Journalism II: Broadcasting (1510) and Journalism III instructor's recommendation and determination that the student will hold a production leadership post on the broadcast staff.

1550 Journalism III: Advanced Newspaper

Students receive both theoretical training and practical experience in journalism by serving as student leaders in the production of the school newspaper. Students in Journalism III will take the class concurrently with Journalism II students and will serve as editors of the publication. Experiences include assigning stories and managing student reports, writing and editing copy using computers, word processing, creating and editing layouts using desktop publishing software, taking and scanning photographs and using digital photo software to edit and process photos. Students in this course are expected to serve both as managers and student leaders of the publication. This course may be taken a second time, but the granting of credit is contingent upon evidence of continuous growth in the subject.
CREDIT: 1 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Successful completion of Journalism II: Newspaper (1520) and Journalism III instructor's recommendation and determination that the student will hold an editorial leadership post on the publication staff.

1560 Journalism III: Advanced Yearbook

Students receive both theoretical training and practical experience in journalism by serving as student leaders in the production of the school yearbook. Students in Journalism III will take class concurrently with Journalism II students and will serve as editors of the publication. Experiences include assigning stories and managing student staff, writing and editing copy using computers, word processing, creating and editing layouts using desktop publishing software, taking and scanning photographs using digital photo software, handling advertising and yearbook business. Students in this course are expected to serve both as managers and student leaders of the publication. This course may be taken a second time, but the granting of credit is contingent upon evidence of continuous growth in the subject.
CREDIT: 1 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Successful completion of Journalism II: Yearbook (1530) and Journalism III instructor's recommendation and determination that the student will hold an editorial leadership post on the publication.

1570S/1570So Creative Writing

This course is being offered in a face-to-face or online environment.
This course is designed for students who have a sound knowledge of basic writing skills and who wish to exercise their imaginations by writing stories, plays, and poems. This course may be repeated for credit with the instructor's approval.
Use course number 1570So if you wish to take this course online.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: English 9

1590 Introduction to Film

While developing the skills necessary to analyze a film, the predominant literary art form of the modern world, students are introduced to the art of the motion picture. The history of film from the beginnings to contemporary times is traced. The principal focus of this course is on techniques employed by various directors in different time periods to translate a story from script to film. Students write analyses of different aspects of films, works of major directors, and movements in the film industry.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12
PREREQUISITE: Successful completion of the most recent English class with a grade of 70% or higher.

Family and Consumer Science

6600 Food Science Technology

Cooking opportunities will be limited. This course may fulfill a science elective credit. The family and consumer sciences teachers, as well as the science teachers, are the base teachers for a class of food science. Food Science Technology is the science of food preparation. It is the “why” of how cakes rise, starches thicken custards, and vinaigrettes separate into layers. Product development is a central assessment in the course. Students will use a variety of tools to solve problems that must be faced by food scientists and technologists as they work to bring commercially viable food products to the consumer. The integration of science, technology, mathematics, health, and other disciplines are used as student teams work to solve food development problems.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12

6610 Nutrition Technology

Cooking opportunities will be limited. This course helps students understand the basics of nutrition across the life span and the technological systems that affect the food supply. In addition, students explore the relationship between diet and nutrition-related health problems and disease. Students evaluate the accuracy of nutrition information from a variety of sources in order to make decisions regarding food choices. In planning and preparing nutritious meals, students have an opportunity to utilize a variety of kitchen equipment and computers to analyze diets and recipes. Careers in the nutrition and food service industries will be explored. This course is recommended to students who are interested in pursuing a career in buffet catering and/or child development.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12

6620 Cultures and Cuisines

Students focus on their own eating experiences as they gain confidence in culinary skills through the selection and preparation of health foods from their own and other cultures. Using the USDA Food Pyramid, students analyze the commonalities and uniqueness of eating patterns across cultures while studying the history and geography of those areas. Computer generated dietary analysis, recipe conversions, and shopping lists assist students as they learn current cooking techniques and food presentation ideas from diverse culinary traditions. Culinary history is explored as students work with herbs, spices and ingredients from cultures represented in their studies. Careers relating to ethnic cuisines in the food industry and global food economics are investigated.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12

Fine Arts

Dance

6000 Dance I

This course focuses on placement, alignment, dance positions and beginning dance technique in ballet, jazz, tap, and modern dance. Body strength and flexibility are emphasized. Students study physiology, dance theory and history, terminology and critique, and choreography. Students are required to wear appropriate dance attire, dance shoes, and costumes. Dance attire purchased through the school will not exceed $90.00. Public performance is a required component of this course.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12

6010 Dance II

This course focuses on more extensive work in body placement and alignment, flexibility and strength, and dance technique in ballet, jazz, tap and modern dance. Continued study of dance history, physiology, dance theory, choreography, dance vocabulary, and dance critique occurs. This course may be repeated for credit with the instructor's approval. Students are required to wear appropriate dance attire, dance shoes, and costumes. Dance attire purchased through the school will not exceed $90.00. Public performance is a required component of this course.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Successful completion of Dance I (6000) with a grade of 70% or higher or the recommendation of the instructor after an audition and placement evaluation.

6020 Advanced Dance

With a focus on dance as both a means of expression and a performing art, this course emphasizes technical proficiency in advanced choreography, critique, and theory as students become proficient in applying their knowledge of dance history, technique, and the elements of physiology to performances. Group and individual performances are outgrowths of this course. This course may be taken for credit once a year for four years. Students are required to wear appropriate dance attire and costumes. Dance attire purchased through the school will not exceed $90.00. Public performance is a required component of this course.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Successful completion of Dance II (6010) with a grade of 70% or higher or the recommendation of the instructor after an audition.

Music

The high school music program is a highly varied program. Music instruction is provided in all schools to help students gain skills, knowledge, and appreciation as active participants in the art of making music. Opportunities are provided for students to sing, play instruments, read, listen to, create, interpret music and accumulate knowledge and values at the various levels of skill appropriate to their capabilities. Opportunities for individual, small group, and large group instruction are available.
Performing groups may be organized according to the musical experience and ability of students. The names of these organizations will vary from school to school.

Advanced courses are offered for talented students who wish to pursue a musical career or participate in musical activities in their leisure time.

6300 Music Theory

Music theory is for serious music students who wish to enhance their understanding of the fundamentals of music, including the relationship to music history. Students study ear-training, sight-singing, the elements of music, and music analysis. Composition is an outgrowth of this course. This course may be repeated for credit with the instructor's approval.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Ability to read music and instructor's recommendation.

6309 Advanced Placement Music Theory

Advanced Placement Music theory is for serious music students who wish to enhance their understanding of the fundamentals of music, including the relationship to music history. Students study ear-training, sight-singing, the elements of music, and music analysis. Composition is an outgrowth of this course. Taught at the college level, this course affords advanced students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of many colleges or universities which recognize students' participation in the College Board's Advanced Placement Program. Students who complete an advanced placement course shall receive a weighted grade.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 10-12
PREREQUISITE: Successful completion of 6300 Music Theory in the previous academic year or a successful passing of the AP Music Theory course pre-test with 80% or higher.

6310 Chorale

This course is designed for ninth-grade students who have middle school choral performance experience and for tenth, eleventh, and twelfth-grade students whose choral background is limited. In addition to the introduction to four-part singing, the development of choral techniques includes intonation, balance within and among sections, choral blend, diction, and sight reading. Interpretation and expression are emphasized, and students perform choral music from various historical periods and cultural backgrounds. Performance etiquette and listening skills are refined. This course may be repeated for credit with the instructor's approval.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Recommendation of the instructor after an audition.

6320 Chorus I

In this course designed for the beginning singer, students become familiar with basic vocal production techniques, including posture, breathing, diction, and vowel placement. Emphasis is placed on intonation, balance, blend, interpretation, and expression. The repertoire may include folk, jazz, and modern musical themes. Students learn to appreciate music from various cultures. They acquire an understanding of appropriate concert and audience etiquette. Public performance is a required component of this course.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12

6340 Chamber Chorus

This course is designed for a small, highly selective group of advanced singers, who perform the chamber music of all periods. Vocal techniques as well as the historical and theoretical aspects of chamber music are studied. Students are required to possess both a high degree of musicianship and the ability to sing independently. The nature of the Chamber Chorus repertoire necessitates that all students attend every performance. This course may be repeated for credit with the instructor's approval.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Recommendation of the instructor after an audition.

6350 Music Theatre

Works from the musical stage and other selected music are performed. Choreographed movement, advanced musicianship, theatre terminology, and stage deportment are studied. Both individual and ensemble performances constitute a major part of this course. Consequently, attendance at all performances is required. This course may be repeated for credit with the instructor's approval.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Recommendation of the instructor after an audition.

6360 Concert Chorus

Through the refinement of choral techniques, advanced singers explore the wide range of serious choral literature for the advanced mixed ensemble written during the time from the Renaissance through the Twentieth Century. Both solo and small ensemble participation are encouraged. A rigorous performance schedule is maintained. This course may be repeated for credit with the instructor's approval.

CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Previous experience and recommendation of the instructor after an audition.

6370o Music Appreciation online

Music Appreciation is an online course that introduces students to the history, theory, and genres of music, from the most primitive surviving examples, through the classical to the most contemporary in the world at large. The first semester presents the rich modern traditions, including: gospel, folk, soul, blues Latin rhythms, rock and roll, and hip-hop. This online course explores the interface of music and social movements and examines how the emergent global society and the Internet is bringing musical forms together in new ways from all around the world.
This course is only offered online.
CREDIT: 1 **TYPE:** Academic **GRADE:** 12

6400 Concert Band

This course is designed to help advance students' music skills through sectional or individual technical training and through ensemble rehearsals. Students acquire technical skills and play developmental music literature. They also study the fundamentals of music theory. This course may be repeated for credit with the instructor's approval.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Previous small-group instrumental lessons and small-group ensemble experience.

6410 Symphonic Band

This course is designed for student-musicians who have had instrumental training and some experience in larger ensemble rehearsals. Students study a wide variety of music literature. They increase their knowledge of music theory, ensemble intonation and balance, the proper rendition of scales and rhythms, and other aspects of music scores. It is expected that students will practice on a daily basis. As members of the Symphonic Band, students play for selected concerts, assemblies, parades, and other community and school events. This course may be repeated for credit with the instructor's approval.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: At least two years of previous instrumental experience and the recommendation of the instructor after an audition. To enroll in this course, a student and his or her parent or guardian will be required to sign a contract with the school in which course expectations are outlined.

6420 Wind Ensemble

The Wind Ensemble consists of the most experienced instrumentalists who play a variety of music literature. Advanced music concepts are discussed. Students increase their knowledge of music theory, ensemble intonation and balance, the proper rendition of scales and rhythms, and other aspects of music scores. They explore and develop those skills that are basic to careers in music. It is expected that students will practice on a daily basis and audition for honors bands. As members of the Wind Ensemble, students play for concerts, assemblies, and other community and school events. This course may be repeated for credit with the instructor's approval.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Previous advanced instructional experience and recommendation of the instructor after an audition. To enroll in this course, a student and his or her parent or guardian will be required to sign a contract with the school in which course expectations are outlined.

6430 Jazz Ensemble

Jazz Ensemble is designed for students with advanced music skills. The following types of music are studied: popular, swing, jazz, and rock. Creativity, improvisation, and refined aural skills are fostered. Public performance is a required component of this course. This course may be repeated for credit with the instructor's approval.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Recommendation of the instructor after an audition.

6440 String Orchestra

This course is designed for student-musicians who have had instrumental training and some experience in larger ensemble rehearsals. Students study a wide variety of music literature and increase their knowledge of music theory, ensemble intonation and balance. They explore and develop those skills that are basic to careers in music. It is expected that students will practice on a daily basis and audition for honors orchestras. As members of the orchestra, students play for selected concerts, assemblies and other school and community events. This course may be repeated for credit with the instructor's approval.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Teacher recommendation and 2 years previous instrumental instruction.

6445 Advanced Orchestra

The Advanced String Orchestra consists of the most experienced instrumentalists who play a variety of literature. Advanced music concepts are discussed. Students increase their knowledge of music theory, ensemble intonation and balance, the proper rendition of scales and rhythms, and other aspects of music scores. They explore and develop those skills that are basic to careers in music. It is expected that students will practice on a daily basis and audition for honors bands. As members of the Advanced String Orchestra, students play for concerts, assemblies, and other community and school events. This course may be repeated for credit with the instructor's approval.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Two years previous instrumental instruction, and recommendation of the instructor after an audition.

6450 Brass Ensembles: Duets, Trios, Quartets and Quintets

These courses for small instrumental groups of like instruments are designed to develop music skills. Performing usually without a conductor, each member of the ensemble is responsible for maintaining the steady flow of the music. These courses may be repeated for credit with the instructor's approval.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Recommendation of the instructor after an audition.

6470 Percussion Ensembles: Duets, Trios, Quartets, & Quintets

These courses for small instrumental groups of like instruments are designed to develop music skills. Performing usually without a conductor, each member of the ensemble is responsible for maintaining the steady flow of the music. This course may be repeated for credit with the instructor's approval.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Recommendation of the instructor after an audition.

6475 Symphony Orchestra

This ensemble is designed for students with advanced music skills. These students study all styles of music, with concentration on the symphonic orchestra literature. The main focus of this group is to offer the opportunity to perform as a Full Symphony Orchestra. Students will study and perform music in a full orchestra setting, as well as chamber-type ensembles. It is expected that students will practice on a daily basis and audition for honor band and orchestra. As members of the Symphony Orchestra, students will play for both band and orchestra concerts, assemblies, and other community and school events. After school rehearsals may be a requirement. Students may be required to pay for uniforms (Concert Black), class fees and field trips. This course may be repeated for credit with the instructor's approval.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: Teacher recommendation.

6480S Guitar

In this course designed for the beginning guitarist, students become familiar with the fundamentals of guitar. Students will study notation and chord progressions, as it applies to classical, traditional, folk, and popular music (including rock and roll). Students have the opportunity to perform. This course may be

repeated for credit.
COURSE NOTE: Students must provide their own acoustic guitar with case.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 9-12

Theatre

6500 Theatre I
Students receive an introduction to the theatre through a study of the following topics: voice and movement, improvisation, pantomime and/or mime, character analysis, costuming, make-up, and set design. Students critically analyze aspects of play productions.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12

6510 Theatre II
Students receive both theoretical training and practical experience in the theatre through the production of a play. Opportunities are provided to experience major responsibilities for a drama departmental production. Examples of such experiences include set design, costume design, stage management, and acting and/or directing assignments. Students receive instruction in various advanced techniques of acting, the history of the theatre, the interrelationship of the fine arts, and the critical analysis of dramatic literature from different literary periods. Students may also write scenes and entire plays. As a part of course expectations, students are sometimes required to participate in after-school drama activities. This course may be repeated for credit with the instructor's approval.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: Successful completion of Theatre I (6500) with a grade of 70% or higher or instructor's recommendation.

6520 Advanced Acting I
This course is an intensive study into theatrical performance. The students will study various acting methods, including: Meisner, Stanislavski, Hagen, and Spolin. Students will also study different genres of theatre and the special acting styles needed to perform in each. Such styles will include: Shakespeare, Brecht, Restoration, Avant Garde, and Realism. Students will undertake an extensive study of the development of voice, movement, and imagination. Scene work, monologues, and workshop activities are a major focus of this class.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: Theatre II (6510) or concurrent enrollment in Theatre II
COREQUISITES: If you take this course, you must also take 6510 - Theatre II

6530 Advanced Acting II
In this course, students further develop their repertoire of acting methodology and continue their study of various genres of theatre and acting styles. Advanced scene work and audition skills will be emphasized.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12
PREREQUISITE: Advanced Acting I (6520)

6540 Advanced Acting III
In this course, students will perfect audition techniques, character development studies and vocal and movement skills. Students will be given numerous opportunities to participate in scholarship auditions and acting workshops. Students will also explore today's performing arts world focusing on careers, leaders and traits.
CREDIT: 1 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Advanced Acting II (6530)

6550 Stagecraft
Students enrolling in this course will study the design and construction of theatre sets and related stage items, as well as stage lighting. They will also become familiar with audiovisual equipment, costuming, and publicity. Students will be given the opportunity to design for major school productions or student-

directed shows. Renderings, drawings, presentations, and portfolios are a major focus of the class. This course may be repeated for credit.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: Theatre II (6510) or concurrent enrollment in Theatre II.

Visual Arts

The prerequisite for ALL Visual Arts courses, except Photography, is the successful completion of Art and Design (6100) with a grade of 70% or higher. This prerequisite may be waived if a student has successfully completed (with a grade of 80% or higher) a middle school art class and has a teacher recommendation.

6100 Art and Design
The student acquires a basic knowledge of various art media and the skills necessary to work with these media. The various elements of drawing, painting, sculpture, and ceramics are stressed. The student works with all the basic media in the visual arts and becomes acquainted with the procedures and functions of art in a classroom environment.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12

6110 Drawing and Painting
Students draw and paint with the following media: pencil, oil pastel, charcoal, pen and ink, watercolor, ink wash, oil, tempera, and acrylic. The focus is upon landscapes, figures, and still-life conceptualizations.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Successful completion of Art and Design (6100) with a grade of 70% or higher.

6120 Advanced Drawing and Painting
Through intense practice both in class and at home, students refine perceptual and technical skills developed in Drawing and Painting (6110). Through frequent class critiques, students become more familiar with the visual language of drawing and painting.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: Successful completion of Drawing and Painting (6110) with a grade of 70% or higher.

6130 Sculpture I
This course focuses on the production of representational and non-representational sculpture in several of the following media: clay, plaster, wood, papier-mâché, wire, and wax.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Art and Design (6100)

6135 Sculpture II
This course focuses on mastering the production of realistic and representational sculpture forms in several of the following media: clay, plaster, wood, papier mache, wire, and wax. Through intense practice with these mediums, students refine perceptual and technical skills developed in Sculpture I (6130). Students also become more familiar with the language of sculpture through frequent class critiques and assessments.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: Successful completion of Sculpture I (6130) with a grade of 70% or higher.

6140 Ceramics I
Students learn techniques for clay preparation, hand-building, throwing, glazing, and kiln firing.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Art and Design (6100)

6150 Ceramics II

This course provides more advanced study for students with a particular interest in three-dimensional art. Additional wheel experience is offered and emphasis is placed upon a variety of glazing techniques.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: Ceramics I (6140)

6180 Photography Black and White & Digital

This course provides an understanding of the camera and its operations, film developing, projection printing, lighting, photographic composition. Students will receive instruction on the use of a regular 35mm SLR camera and the development of black and white film as well as the use of a 35mm digital camera, scanner, computer images and software, and printers. Owning a 35mm SLR camera is not necessary, but very helpful. Much work will be done outside the classroom, where the skills and techniques learned in the course will be applied. Students are responsible for fees to cover the cost of consumable supplies and materials that will not exceed $20 and may need a jump drive or other media storage for class.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12

6190 Advanced Photography Black and White and Digital

This course provides an in-depth study of black-and-white photography, as well as expand upon the student's previous knowledge of the digital camera, computer, software and output devices by creating projects which include studio lighting for portrait and still life, photo-journalism, and creative darkroom techniques. The skills and techniques learned in this course are applied, to a significant extent, outside the photography classroom. Students are responsible for fees to cover the cost of consumable supplies and materials that will not exceed $20 and may need jump drive or other media storage for class.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12
PREREQUISITE: Successful completion of Photography (6180) with a grade of 70% or higher.

6200 Studio Art

This course is offered for the exceptionally talented student who would like to do intensive work in a particular art discipline. In this course, guidance will be offered to help prepare the student to enter a crafts school, fine arts school, or the fine arts department of a university. A portfolio may be prepared for the College Board's Advanced Placement Studio Art evaluation. Students may be required to pay a fee or purchase materials depending upon their area of interest.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12
PREREQUISITE: Recommendation of an art instructor.

6209 Advanced Placement Studio - Drawing

Students must submit a preliminary art portfolio for approval by the AP art instructor. This portfolio will serve as a basis for the AP portfolio and must be approved for both quality and quantity to assure that the AP portfolio requirements can be completed in 1 year of AP study. This course is designed to address a very broad interpretation of drawing issues. For example, many types of painting, printmaking, and studies for sculpture, as well as abstract and observational works, would qualify as addressing drawing issues. Portfolios presented to the College Board include the following: Quality - 5 actual works - These are works that excel in concept, composition and execution. Concentration - 12 slides; some may be details - A series of works organized around a compelling visual concept in drawing. A written commentary explaining the development of the concentration must accompany the work in this section. Breadth - 12 slides; one slide each of 12 different works -Students must submit a variety of drawings showing a demonstration of a variety of concepts, media and approaches. Students will be expected to provide their own supplies and materials. Taught at the college level, this course affords advanced students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if their portfolios meet entrance standards, and if they attend one of the many colleges or universities which recognize students' participation in the College Board's Advanced Placement Program. Students who complete an advanced placement course shall receive a weighted grade.

CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12
PREREQUISITE: Art and Design (6100) and Drawing and Painting (6110) or Advanced Drawing and Painting (6120).

6219 Advanced Placement Studio - Two Dimensional Design

Students will be asked to demonstrate proficiency in two-dimensional design using a variety of art forms. These could include, but are not limited to, graphic design, typography, digital imaging, photography, collage, fabric design, weaving, illustration, painting, and printmaking. Portfolios presented to the College Board include the following: Quality - 5 actual works - These are works that excel in concept, composition and execution. These works may include drawings, paintings, prints, digital works, photographs, diagrams, plans, animation cells, collages, montages, and so forth. Concentration - 12 slides; some may be details - A series of works organized around an individual's interest in a particular idea expressed visually. A written commentary explaining the development of the concentration must accompany the work in this section. Breadth - 12 slides; one slide each of 12 different works - students must submit a variety of two-dimensional art forms and techniques. Successful works of art require the integration of the elements and principles of design. Students will be expected to provide their own supplies and materials. Taught at the college level, this course affords advanced students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if their portfolios meet entrance standards, and if they attend one of the many colleges or universities which recognize students' participation in the College Board's Advanced Placement Program. Students who complete an advanced placement course shall receive a weighted grade.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12
PREREQUISITE: Art and Design (6100) and Drawing and Painting (6110) or Advanced Drawing and Painting (6120). Students must submit a preliminary art portfolio for approval by the AP art instructor. This portfolio will serve as a basis for the AP portfolio and must be approved for both quality and quantity to assure that the AP portfolio requirements can be completed in 1 year of AP study.

6229 Advanced Placement Studio - Three Dimensional Design

This course is designed to address a very broad interpretation of three-dimensional design and sculptural issues in depth and space. These might include traditional sculpture, architectural models, apparel, ceramics, three-dimensional fiber arts or metal work, among others. Portfolios presented to the College Board include the following: Quality - 10 slides, consisting of 2 views of each of 5 works - These are works that excel in concept, composition and technical skills demonstrated, and the realization of the artist's intentions. Concentration - 12 slides; some may be details - A series of works organized around a compelling visual concept in 3-D design. A written commentary explaining the development of the concentration must accompany the work in this section. Breadth - 16 slides; 2 slides each of 8 different works - Students must submit a variety of three-dimensional art forms and techniques. The student will be introduced to problems in concept, form, and materials as they pertain to sculpture and three-dimensional design. Students will be expected to provide their own supplies and materials. Taught at the college level, this course affords advanced students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if their portfolios meet entrance standards, and if they attend one of the many colleges or universities which recognize students' participation in the College Board's Advanced Placement Program. Students who complete an advanced placement course shall receive a weighted grade.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12
PREREQUISITE: Art and Design (6100) and Ceramics I (6140) or Sculpture (6130). Students must submit a preliminary art portfolio for approval by the AP art instructor. This portfolio will serve as a basis for the AP portfolio and must be approved for both quality and quantity to assure that the AP portfolio requirements can be completed in 1 year of AP study.

Mathematics

To graduate, a student must earn four credits in high school mathematics. Because of the demands of an increasingly technological society it is required that every student should study mathematics each year of high school, thus earning a minimum of four credits.

Students are strongly encouraged to select courses from the advanced program upon attainment of the prerequisite skills; a comprehensive four-year plan of studies should include provisions for this goal. The selection of the appropriate mathematics program for each student should be based on: (a) individual needs, (b) ability, and (c) attainment of the necessary prerequisites for the desired course. Students seeking to qualify for admission to Maryland colleges and universities should have credits in Algebra 1, Geometry, Algebra 2 and one Math elective.

Math courses taken during the student's senior year in high school should be reflective of student's post-high school goals and student's past degree of rigor.

3123 Comprehensive Algebra 1

This is a two-period course. Comprehensive Algebra is for ninth or tenth grade students who are not ready for the rigor of Academic Algebra I. By successfully completing Comprehensive Algebra, the student will receive two math credits - the algebraic concepts credit required for graduation as well as a math elective credit. Topics covered include linear, quadratic, polynomial, and exponential functions, equations, inequalities and systems, as well as modeling with statistics and other mathematics. This course is designed to prepare students for the Algebra I PARCC Assessment.
CREDIT: 2 **TYPE:** Academic **GRADE:** 9 **NCAA (1 unit of math)**

3125 Academic Algebra 1

This course is the foundation for all higher mathematics courses. Any student planning to enroll in either a college or a post-secondary technical program should elect this course. Topics covered include linear, quadratic, polynomial, and exponential functions, equations, inequalities and systems, as well as modeling with statistics and other mathematics. This course is designed to prepare students for the Algebra I PARCC Assessment.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9 **NCAA**

3131 Intermediate Algebra

Topics covered include linear, quadratic, exponential, and logarithmic functions, equations, and relationships, with an emphasis on modeling these situations. This course is designed to help students prepare for Algebra 2 success.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11
PREREQUISITE: Successful completion of Geometry

3135 Academic Algebra 2

This course is a continuation of the development of concepts and problem-solving methods begun in Academic Algebra 1 and continued in Academic Geometry. Advanced algebraic operations, techniques for problem-solving, and the practical application of mathematical theory are stressed. It is a necessary course for anyone planning a career in physical science, chemical science, or engineering. Topics covered include arithmetic and geometric sequences, probability and data analysis, and quadratic, polynomial, rational, radical, exponential, logarithmic, and trigonometric relations, equations and functions. This course is designed to prepare students for the Algebra II PARCC assessment.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of Academic Algebra 1 (3125/3725) or Comprehensive Algebra (3123/3723).

3137 Honors Algebra 2

Topics covered include arithmetic and geometric sequences, probability and data analysis, and quadratic, polynomial, rational, radical, exponential, logarithmic, and trigonometric relations, equations and functions. An emphasis is placed on applying algebra to logarithmic and trigonometric situations. Students are required to have a graphing calculator that meets or exceeds the capabilities of a TI-84+ graphing calculator. This course is designed to prepare students for the Algebra II PARCC assessment. This course may be taken concurrently with Honors Geometry.
CREDIT: 1 **TYPE:** Honors **GRADE:** 9-12 **NCAA**
PREREQUISITE: 3207 - Honors Geometry, or this course may be taken concurrently.

3204 Geometry

This course is structured to emphasize basic knowledge of plane geometry and its properties, correct terminology, definitions, and proofs. Significant work is done in this course to apply and extend understandings of algebraic reasoning and manipulations in order to prepare students for college and career readiness. Topics that are studied include angles, lines, triangles, quadrilaterals, and circles; congruence, similarity, and transformation; right triangle relationships and trigonometry; and two- and three-dimensional modeling. This course is designed to prepare students for the Geometry PARCC Assessment.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10 **NCAA**
PREREQUISITE: Successful completion of Academic Algebra 1 (3125/3725) or Comprehensive Algebra (3123/3723).

3207 Honors Geometry

This course provides for the development of mathematical systems through an axiomatic approach using inductive and deductive reasoning. Significant work is done in this course to apply and extend understandings of algebraic reasoning and manipulations in order to prepare students for college and career readiness. Topics that are studied include angles, lines, triangles, quadrilaterals, and circles; congruence, similarity, and transformation; right triangle relationships and trigonometry, extending to the unit circle; and two- and three-dimensional modeling. This course is designed to develop a basic understanding of axiomatic theory proof. This course is designed to prepare students for the Geometry PARCC Assessment. This course may be taken concurrently with Honors Algebra 2.
CREDIT: 1 **TYPE:** Honors **GRADE:** 9-10 **NCAA**
PREREQUISITE: Completion of Algebra 1 (3125) with a grade of 80% or higher and teacher recommendation.

3301 Accelerated Algebra II/Pre-Calculus

This honors level course differs from the standard and honors Algebra 2 courses in that it contains content from Pre-Calculus. Coherence is retained in that the course logically builds from Algebra 1 and Honors Geometry. The additional content, when compared to the standard course, demands a much faster pace for instruction and learning. Because the demands of this course are very high, students should alternatively consider taking Honors Geometry and Honors Algebra 2 concurrently, followed by Honors Pre-Calculus when designing four-year plans, in order to have an increased amount of time and depth with the standards of the courses. Topics covered include quadratic, polynomial, rational, exponential, and logarithmic functions, equations, and relationships, as well as statistics and inference, trigonometry, and modeling. This course is designed to prepare students to go directly into AP Calculus 1.
CREDIT: 1 **TYPE:** Honors **GRADE:** 10-11 **NCAA**
PREREQUISITE: Student must pass both Algebra 1 and Honors Geometry with a 90% or higher or teacher recommendation.

3303 Algebra 3

This course is designed to help improve higher order algebra skills for a student not ready to progress to Pre-calculus. The skills learned will help prepare students for college mathematics placement exams. The Topics covered include functions, quadratics, exponents and radicals, rational expressions, logarithms, and conics. Students are required to have a graphing calculator that meets or exceeds the capabilities of

a TI-84+ graphing calculator. Students who enroll in this course will be given the opportunity to register for dual enrollment with the College of Southern Maryland at a reduced rate in a section of a parallel course. Students who choose this option will earn college credits for successful completion of this course. 2017-2018 will be the last time this course is offered.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of Academic Algebra 2 (3135) and Geometry (3204).

3305 Academic Pre-Calculus with Trigonometry

This course is designed to develop a better understanding of mathematical systems. Topics studied include exponential and logarithmic functions, complex numbers, trigonometric identities and formulas, circular functions and their inverses, polynomial functions, vectors, matrices and determinants, permutations and combinations. Students are required to have a graphing calculator that meets or exceeds the capabilities of a TI-84+ graphing calculator. Students who enroll in this course will be given the opportunity to register for dual enrollment with the College of Southern Maryland at a reduced rate in a section of a parallel course. Students who choose this option will earn college credits for successful completion of this course.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of both Academic Algebra 2 (3135) and Geometry (3204) with a grade of 70% or higher. Concurrent enrollment in Academic Pre-Calculus with Trigonometry (3305) and Math Analysis (3430) is permitted with teacher recommendations. In this case, placement in Honors Pre-Calculus with Trigonometry (3307) should be considered as an alternate placement.

3307 Honors Pre-Calculus with Trigonometry

This course provides a strong foundation in precalculus concepts, techniques, and applications to prepare students for more advanced studies in mathematics. Topics studied include exponential, logarithmic, polynomial, and trigonometric functions and their inverses, algebra and geometry, circular functions, complex numbers, and linear systems. Students are required to have a graphing calculator that meets or exceeds the capabilities of a TI-84+ graphing calculator. Students who enroll in this course will be given the opportunity to register for dual enrollment with the College of Southern Maryland at a reduced rate in a section of a parallel course. Students who choose this option will earn college credits for successful completion of this course.
CREDIT: 1 **TYPE:** Honors **GRADE:** 10-12 **NCAA**
PREREQUISITE: Successful completion of Honors Algebra 2 (3137) and Honors Geometry (3207) with a grade of 80% or higher or teacher recommendations.

3409/3409o Advanced Placement Calculus 1

This course is being offered in a face-to-face or online environment.
Concurrent enrollment in Math Analysis (3430) is permitted for twelfth-grade students who have attained a grade of 80% or higher in Academic Pre-Calculus with Trigonometry (3305). Topics studied include techniques of differentiation and integration of algebraic and trigonometric functions as well as their applications. Students are required to have a graphing calculator that meets or exceeds the capabilities of a TI-84+ graphing calculator. Taught at the college level, this course affords advanced students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of many colleges or universities which recognize students' participation in the College Board's Advanced Placement Program. Students who complete an Advanced Placement course shall receive a weighted grade.
Use course number 3409o if you wish to take this course online.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of Honors Precalculus with Trigonometry (3307) with a grade of 80% or higher or successful completion of Academic Pre-Calculus with Trigonometry (3305) and Math Analysis (3430) with a grade of 80% or higher and the recommendation of the most recent departmental instructor.

3419 Advanced Placement Calculus 2

Topics studied include limits, continuity, differentiation, integration (advanced techniques), sequences, and series. Students are required to have a graphing calculator that meets or exceeds the capabilities of a TI-84+ graphing calculator. Taught at the college level, this course affords advanced students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of many colleges or universities which recognize students' participation in the College Board's Advanced Placement Program. Students who complete an advanced placement course shall receive a weighted grade. This course is also being offered on-line, Course #3419O. Please see your school counselor for additional information.

CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12 **NCAA**

PREREQUISITE: Successful completion of Advanced Placement Calculus 1 (3409) with a grade of 80% or higher.

3420S/3420So Introductory Statistics

This course is being offered in a face-to-face or online environment.

This course is designed to develop a better understanding of the varied links between statistics and its real-world applications. Topics studied include examining distributions and relationships, producing data and learning the key symbols and terms used in statistics. Students are required to have a graphing calculator that meets or exceeds the capabilities of a TI-84+ graphing calculator.

Use course number 3420So if you wish to take this course online.

CREDIT: 0.5 **TYPE:** Academic **GRADE:** 10-12 **NCAA**

PREREQUISITE: Successful completion of Academic Algebra 2 (3135) or Honors Algebra 2 (3137).

3429/3429o Advanced Placement Statistics

This course is being offered in a face-to-face or online environment.

This course is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics studied include exploring data, planning a study, anticipating patterns, and using statistical inference. Students are required to have a graphing calculator that meets or exceeds the capabilities of a TI-84+ graphing calculator. Taught at the college level, this course affords advanced students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of many colleges or universities which recognize students' participation in the College Board's Advanced Placement Program. Students who complete an Advanced Placement course shall receive a weighted grade.

Use course number 3429o if you wish to take this course online.

CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 10-12 **NCAA**

PREREQUISITE: Successful completion of Honors Geometry (3207) and Honors Algebra 2 (3137) with a grade of 80% or higher, or successful completion of Academic Pre-Calculus (3305) with a grade of 80% or higher.

3430 Math Analysis

This course serves as a higher math elective. Topics to be studied include: set theory, algebra of vectors, fields, sequences and series, functions, complex numbers, polynomial functions, exponential and logarithmic functions, probability and limits. Students are required to have a graphing calculator that meets or exceeds the capabilities of a TI-84+ graphing calculator.

CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12 **NCAA**

PREREQUISITE: Successful completion of Academic Pre-Calculus (3305) or Honors Pre-Calculus (3307) with a grade of 80% or higher.

5010 Business Mathematics

Students will learn techniques to manage their cash, to make money by investing, and to make informed decisions regarding the purchase and operation of cars and homes. Students will also be introduced to topics such as insurance, banking, and debt management. They will gain the math skills necessary to

confidently manage the challenges of everyday life. This class is offered through the business department and counts as a mathematics credit for graduation.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: Two credits in mathematics or one credit in Comprehensive Algebra (3123) or Academic Algebra 1 (3125).

Naval Science

Established by the Congress of the United States in 1964, the Naval Junior Reserve Officers' Training Corps (NJROTC) Program teaches self-discipline, self-confidence, and leadership skills. The main objectives of this elective program are to promote patriotism, develop informed and responsible citizens, promote habits of orderliness and precision, develop respect for constituted authority, and develop a high degree of personal honor, individual discipline, and self- reliance.

The program includes classroom study in the areas listed in the course descriptions. In addition, physical fitness, personal appearance and good grooming habits, respectful conduct, and leadership training are stressed. Those who enroll in naval science courses join a unit and agree to wear the Navy uniform one full day a week and to comply with the standards of academic performance and personal conduct required of NJROTC cadets. All textbooks, regular uniforms, and training equipment are provided by the Navy at no cost to the student.

Any cadet who is qualified and interested is provided significant assistance in competing for a four-year college ROTC scholarship and/or a nomination to any of the service academies. The curriculum also includes current information on opportunities in all of the armed forces.

The student who elects to take naval science incurs no military obligation. However, successful completion of two years or more of naval science allows entry into the armed forces at up to two pay grades higher than other enlistees.

To broaden each cadet's horizons, frequent field trips are made to visit various military bases, ships, and other government installations of interest. Cruises and visits aboard Navy ships provide practical, hands-on training experiences.

Extracurricular activities include interscholastic competition at the local, regional, and national levels in academics, marksmanship, orienteering drill team, and color guard. Selected cadets may attend special advanced training or educational opportunities.

To enroll in any NJROTC unit, a student must be of good moral character, physically fit, and at least fourteen (14) years old. He or she must agree to accept and maintain the high standards of behavior and personal appearance required of cadets.

7210 Naval Science I

Students are introduced to both the NJROTC program and the study of naval science. Emphasis is placed on personal development and career planning; leadership skills; naval orientation; citizenship and American government; wellness; fitness, and first aid; geography and survival skills; and teamwork development. Opportunities are available to participate in community service, marksmanship, orienteering, drill, and athletics. Students are required and agree to wear the Navy uniform one full day a week. Students are also required to dress out and participate in physical fitness training.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12

7220 Naval Science II

Advanced leadership skills are practiced. Maritime History; Maritime Geography as it relates to national resources, landforms, climate, soil, bodies of water, people, governments, and military; Current Events, Naval History, Naval Operations; and Intelligence and National Security are studied. Students are required and agree to wear the Navy uniform one full day a week. Students are also required to dress out and participate in physical fitness training.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: Successful completion of Naval Science I (7210) with a grade of 70% or higher.

Concurrent enrollment of students in Grades 11 and 12 in Naval Science III (7230) is permitted with the instructor's recommendation.

7230 Naval Science III

Cadets practice advanced leadership skills and management techniques in the daily operation of the NJROTC unit, including the planning for and conducting of unit functions. Major areas of study include sea power and national security, naval operations, military and international law, ship design and organization, and maritime navigation. Opportunities are available to participate in community service, marksmanship, orienteering, drill, and athletics. Students are required and agree to wear the Navy uniform one full day a week. Students are also required to dress out and participate in physical fitness training.

CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12

PREREQUISITE: Successful completion of Naval Science II (7220) with a grade of 70% or higher. Concurrent enrollment of students in Grades 11 and 12 in Naval Science IV (7240) is permitted with instructor's recommendation.

7240 Naval Science IV

Advanced leadership and ethics development accomplished through seminar discussions. Cadets practice advanced leadership skills and management techniques in the daily operation of the NJROTC unit including the planning for and conducting of unit functions and activities. Opportunities are available to participate in community service, marksmanship, orienteering, drill, and athletics. Students are required and agree to wear the Navy uniform one full day a week. Students are also required to dress out and participate in physical fitness training.

CREDIT: 1 **TYPE:** Academic **GRADE:** 12

PREREQUISITE: Successful completion of Naval Science III (7230) with a grade of 70% or higher.

Physical Education/Health and Wellness

The Physical Education program at the high school level provides a format for the greater development of personal health, fitness, and wellness. Students are challenged to increase their personal well-being by choosing a PE elective that best fits their needs, interests, and abilities. Each of the following courses embeds the standards of the Maryland State Curriculum and National Standards for Physical Education. Therefore, students may select from any of the following activity-based courses to complete the mandatory ½ credit graduation requirement for Physical Education: Team Sports, Recreational Sports, Weight Training and Physical Conditioning I, Stretching and Toning, and Aerobics. Students wishing to take additional Physical Education classes may choose to take a level two course for elective credit.

Students are required to have appropriate physical education uniforms to participate in all activity courses.

7005S Fundamentals of Movement

This course is designed to meet the needs of students with a limited range of skills or movement based on a physical ailment, injury, or delay of motor skill development. The program is designed to advance the development of physical and motor fitness so that each individual can better participate in physical education as well as lifetime leisure, recreation and sport activities. *Students are required to wear physical education uniforms to participate. Since some classes will be outside during cool weather, it is strongly recommended that students have some type of warm-up or sweat suit. This course may be repeated for credit.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 9-12

7010S/7010So Health

This course is being offered in a face-to-face or online environment.
The health course fulfills the State of Maryland's graduation requirement for health. The class covers health content including mental and emotional health; nutrition and wellness; alcohol, tobacco, and other drugs; family life and human sexuality; disease prevention; and safety and injury prevention. The purpose of the health course is to create health literate individuals by teaching health as a skill through the development of appropriate decision-making, use of refusal skills, realistic goal-setting, effective communication, and use of community resources. Parents are encouraged to visit the school and become familiar with the Family Life content. An approximately two-week alternative to the component is offered. Parents and students should check with the course instructor or school principal for more information. This course meets the graduation requirement for health education.
The health course is offered online by using course 7010So for registration. Students taking this course online will have required face to face meetings that will occur after school or on Saturdays. There will be six scheduled meetings and students will be required to attend at least four.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 9-12

7015 Independent Living/Family Life and Human Development

This course is designed to assist students in dealing successfully with the complex problems and relationships of adulthood. Units of study include careers, life styles, and such basic human needs as food, clothing, and shelter. Units in human development will build upon the foundation begun in Grade 5 and continued in the middle school. Instruction will include topics on the psychology and physiology of human sexual behavior.
CREDIT: 1 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Health (7010S).

7020S Team Sports

Team sports is a sport based class designed around competitive team sports such as flag football, soccer, basketball, floor hockey, broomball, volleyball, handball, and speedball. Students will learn about cardiovascular fitness, muscular endurance, skill-related fitness components, tactical concepts of sports,

and sportsmanship. Students interested in improving cardiovascular fitness by participating in active sports and competitive play on a daily basis should register for the team sports class. *Students are required to wear physical education uniforms to participate. This course meets the graduation requirement for physical education.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 9-12

7025S Team Sports II
The Team Sports II class focuses on similar motor skills and movement patterns of the level I class with an emphasis on more advanced cognitive topics related to fitness principles, motor movement, physical health, personal and social responsibility, nutrition, and technology. The purpose of the level II course is to build upon the psychomotor, cognitive, and affective domains of physical education to help students understand and value physical activity, exercise, and movement. *Students are required to wear physical education uniforms to participate. This course may be repeated for credit.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Level one of any PE course

7040S Recreational Sports
Recreational sports is a sport based class designed around leisure activities such as bowling, Kan Jam, bocce ball, tennis, ultimate Frisbee, softball, badminton, and kickball. Students will learn about the health benefits of regular physical activity, the skill-related components of fitness, and the difference between exercise and recreational activity. Students interested in participating in leisurely sports and activities on a daily basis should register for this class. *Students are required to wear physical education uniforms to participate. This course meets the graduation requirement for physical education.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 9-12

7045S Recreational Sports II
The Recreational Sports II class focuses on similar motor skills and movement patterns of the level I class with an emphasis on more advanced cognitive topics related to fitness principles, motor movement, physical health, personal and social responsibility, nutrition, and technology. The purpose of the level II course is to build upon the psychomotor, cognitive, and affective domains of physical education to help students understand and value physical activity, exercise, and movement. *Students are required to wear physical education uniforms to participate. This course may be repeated for credit.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Level one of any PE course

7050S Weight Training and Physical Conditioning I
Weight training is a muscular strength based class designed to improve muscular strength and power through exercises done in a weight room. In this class, students will learn about the benefits of muscular strength and endurance, the major muscle groups of the body, the principle of overload, and proper nutrition. There are ample opportunities to increase strength, flexibility, speed, and power in this course. Students interested in working out independently in a weight room facility on a daily basis should register for the weight training class. *Students are required to wear physical education uniforms to participate. This course meets the graduation requirement for physical education.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 9-12

7060S Weight Training and Physical Conditioning II
The Weight Training II class focuses on similar motor skills and movement patterns of the level I class with an emphasis on more advanced cognitive topics related to fitness principles, motor movement, physical health, personal and social responsibility, nutrition, and technology. The purpose of the level II course is to build upon the psychomotor, cognitive, and affective domains of physical education to help students understand and value physical activity, exercise, and movement. *Students are required to wear physical education uniforms to participate. This course may be repeated for credit.

CREDIT: 0.5 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Level one of any PE course

7075S Stretching and Toning

Stretching and Toning is an endurance based class designed to improve muscular endurance and strength through activities like yoga, Pilates, circuit training, plyometrics, weight training, and track workouts. In the class, students will learn about the benefits of muscular endurance, the major muscle groups, the FITT principle, self-esteem, and body fat composition. Students interested in improving muscular endurance by working out independently on a daily basis should register for the stretching and toning class. *Students are required to wear physical education uniforms to participate. This course meets the graduation requirement for physical education.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 9-12

7076S Stretching and Toning II

The Stretching and Toning II class focuses on similar motor skills and movement patterns of the level I class with an emphasis on more advanced cognitive topics related to fitness principles, motor movement, physical health, personal and social responsibility, nutrition, and technology. The purpose of the level II course is to build upon the psychomotor, cognitive, and affective domains of physical education to help students understand and value physical activity, exercise, and movement. *Students are required to wear physical education uniforms to participate. This course may be repeated for credit.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Level one of any PE course

7080S Aerobics

Aerobics is a cardio based class designed to strengthen the heart and lungs through activities like kickboxing, circuit training, body attack, Zumba, and track workouts. In this class, students will learn about the cardiovascular system, target heart rate zones, aerobic vs anaerobic activity, self-esteem, and body fat composition. Students interested in improving cardiovascular fitness by working out independently on a daily basis should register for the aerobics class. *Students are required to wear physical education uniforms to participate. This course meets the graduation requirement for physical education.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 9-12

7090S Aerobics II

The Aerobics II class focuses on similar motor skills and movement patterns of the level I class with an emphasis on more advanced cognitive topics related to fitness principles, motor movement, physical health, personal and social responsibility, nutrition, and technology. The purpose of the level II course is to build upon the psychomotor, cognitive, and affective domains of physical education to help students understand and value physical activity, exercise, and movement. *Students are required to wear physical education uniforms to participate. This course may be repeated for credit.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Level one of any PE course

7100 Basic Athletic Training

Students complete a comprehensive program designed to prepare them as student trainers in the athletic program. In addition to wrapping and taping techniques related to school athletic teams, the course offers methods to prevent athletic injuries. Some clinical experience may be provided. Students are required to obtain 10-15 observation hours beyond the school day per quarter as assigned by the instructor. This course may be taken for credit up to two times. The credit earned by successfully completing this course does not satisfy the physical education graduation requirement.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: Completion of Physical Education graduation requirement course and successful completion of Biology with a grade of 70% or higher.

Preparatory Courses

1010S College Entrance Exams Preparation

This course is designed for eleventh-grade college-bound students who would like intensive preparation for college entrance exams such as the SAT or ACT. Other components of this course include reading, writing, critical thinking and problem solving skills. Students will learn skills for filling out college applications and other requirements such as writing essays, etc. Students who enroll in this course are required to purchase a consumable textbook.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 11
PREREQUISITE: Completion of or concurrent enrollment in Geometry.

1015S College Entrance Exams Preparation

This course is designed for twelfth-grade college-bound students who would like intensive preparation for college entrance exams such as the SAT or ACT. Other components of this course include reading, writing, critical thinking and problem solving skills. Students will learn skills for filling out college applications and other requirements such as writing essays, etc. Students who enroll in this course are required to purchase a consumable textbook.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 12
PREREQUISITE: Completion of or concurrent enrollment in Geometry.

1040S Honors Writing for Advanced Courses and College

This course emphasizes preparation for college-level, Advanced Placement, and honors-level academic writing. The material covered in this class will help students who are planning on attending college and/or taking high-level courses in high school to gain confidence when undertaking writing assignments in any of their academic courses. Students will learn how to think critically about the ideas and language of others, as well as how to articulate their own responses in writing. Students will learn the basic structures of academic writing and will learn how to vary/expand that structure to fit most all academic writing assignments. Students will also learn how to the language used to convey their ideas will appropriately change as they develop a thesis, articulate support for ideas, and express these ideas through the process of drafting, work-shopping, revising, and editing responses to higher-order questions and prompts. Honors Writing for Advanced Courses and College is considered a complimentary course to College Entrance Exams Preparation or introduction to Philosophical Thought. Students who successfully complete this course will earn either 1/2 of an elective credit in English or 1/2 of an elective credit in Social Studies.
CREDIT: 0.5 **TYPE:** Honors **GRADE:** 9-12
PREREQUISITE: Successful completion of most recent English and social studies courses with a grade average of 70% or better and teacher recommendation.

1050S Strategies for Self Determination

This course provides the opportunity for students to obtain the skills needed to independently manage self-determination and interpersonal skills that are not explicitly taught in the course of a school day. The course will address units of study in the areas of understanding self-determination, being self-aware, developing interpersonal skills, communicating effectively with others, decision making, developing social awareness, and self-advocacy. The majority of instruction will be provided in a classroom based setting and students will be provided the opportunity to apply skills learned in a community setting, as opportunities arise.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 9-12

1055S Strategies for Daily Living

This course provides the opportunity for students to obtain the skills needed to independently manage activities of daily living that are not explicitly taught in the course of a school day. The skills addressed include: managing basic personal finances; selecting and managing a household; caring for personal needs; buying, preparing, and consuming food; utilizing recreational facilities and engaging in leisure

activities; and choosing and accessing transportation. The majority of instruction will be provided in a classroom based setting and students will be provided the opportunity to apply skills learned in a community setting, as appropriate.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 9-12

1101S Freshman Seminar (semester)

Freshman Seminar is a course designed to promote a successful transition between middle school and high school. The course provides students with opportunities for academic enrichment and assistance, as well as the chance to improve organizational and communication skills. In addition, part of the course is dedicated to a discussion of college and career choices. This is a pass/fail course which is not calculated into a student's grade point average. This course may be repeated one time for credit.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 9

2590S Honors Introduction to Philosophical Thought

This course provides students with an introduction to some of the major problems, methods and insights of philosophy with readings from both classical and contemporary sources. This course will also examine the ideas of philosophers who have been most influential in the history of analytical thought. Students will begin to recognize the enduring nature of some of the world's most pressing problems, as well as the intellectual foundation of proposed solutions. Additionally, students will examine many of the problems of social and political philosophy through an analysis, comparison and critical examination of various views concerning the nature of individuality and society and the relationship between the two. Honors Introduction to Philosophical Thought is considered a complimentary course to Honors Writing for Advanced Courses and College. Students who successfully complete this course will earn either 1/2 of an elective credit in English or 1/2 of an elective credit in Social Studies.
CREDIT: 0.5 **TYPE:** Honors **GRADE:** 10-12
PREREQUISITE: Successful completion of most recent English and social studies courses with a grade average of 70% or better or teacher recommendation.

Science

Three science credits earned after a student leaves grade 8 are required for high school graduation. Students seeking attendance in the University of Maryland College system must complete 3 credits of laboratory-approved science courses. All courses offered in the science program have laboratory experiences as an integral component and meet the University of Maryland admission standard. The Next Generation Science Standards (NGSS) state that students should select a balance between life, physical, and earth science courses. Course selection should be based upon future and immediate needs of students and information provided in these descriptions. After receiving appropriate instruction in life, physical, and earth science, students will take the Maryland Integrated Science Assessment (MISA), which is required for graduation. The science program includes:

4104 Earth Science

This course focuses on the dynamic forces which shape Earth. Students study and observe the geologic, meteorologic, astronomic, and oceanic processes that have shaped Earth and make it unique in its solar system, and the universe.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12 **NCAA**

4107 Honors Earth Science

This course focuses on the dynamic forces which shape Earth. Students complete an in-depth study of the geologic, meteorologic, astronomic, and oceanic processes that have shaped Earth and make it unique in its solar system. Current issues related to society and earth science are explored.
CREDIT: 1 **TYPE:** Honors **GRADE:** 10-12 **NCAA**
PREREQUISITE: An average science grade of 80% or higher or teacher recommendation.

4204 Biology

Biology is the study of living organism, including their structure, functioning, evolution, distribution, and interrelationships. This course is the study of the following topics: biochemistry, cells and cell processes, genetics, evolution, ecology, and current issues of biology. Laboratory work is an integral part of this course.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12 **NCAA**

4207 Honors Biology

Biology is the study of living organism, including their structure, functioning, evolution, distribution, and interrelationships. This course is the study of the following topics: biochemistry, cells and cell processes, genetics, evolution, ecology, and current issues of biology. Laboratory work is an integral part of this course.
CREDIT: 1 **TYPE:** Honors **GRADE:** 9-12 **NCAA**
PREREQUISITE: Recommended completion of Accelerated 8/Algebra I or Algebra I and an average science grade of 80% or higher or teacher recommendation.

4209 Advanced Placement Biology

The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and an appreciation of science as a process. Primary emphasis in an AP Biology course will be on developing an understanding of concepts rather than on memorizing terms and technical details. Topics covered include cells, heredity, evolution, organisms and populations. Taught at the college level, this course affords advanced students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of many colleges or universities that recognize students' participation in the College Board's Advanced Placement Program. Students who complete an Advanced Placement course shall receive a weighted grade.

CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of Biology (4204) or Honors Biology (4207) and Chemistry (4304 or 4307) with a grade of 80% or higher and concurrent enrollment in Biology Laboratory (4210) Also, attainment of an 80% or higher average in all prior science courses and the recommendation of the most recent departmental instructor is required.
COREQUISITES: If you take this course, you must also take 4210 - Biology Laboratory

4210 Biology Laboratory

Students will conduct laboratory experiments in the areas of biological chemistry, physiology, and ecology. Unlike Advanced Placement Biology (4209), this course shall be weighted according to the traditional high school grading scale. Together with Advanced Placement Biology (4209) this course constitutes one (1) laboratory science course. It may not be counted as a separate laboratory science course. It does not fulfill one of the three Maryland State Board of Education high school graduation requirements in science. However, students who complete this course successfully earn one elective credit in science which will fulfill the additional required credit to promote rigor.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12
PREREQUISITE: Concurrent enrollment in Advanced Placement Biology (4209).
COREQUISITES: If you take this course, you must also take 4209 - Advanced Placement Biology

4304 Chemistry

This course provides a survey of introductory chemistry topics including the structure and properties of atoms, elements, mixtures, and compounds; chemical reactions; periodic table; stoichiometric concepts; and bonding. Laboratory work is an integral part of this course.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12 **NCAA**
PREREQUISITE: Successful completion of Academic Algebra 1 (3125) or Comprehensive Algebra (3123) with a grade of 70% or higher.

4307 Honors Chemistry

Topics include matter, bonding, gas laws, stoichiometry, solutions, reactivity, and descriptive chemistry. Although the course content is similar to Chemistry (4304), students will examine the material in greater detail. Extensive laboratory work is an essential component of this course.
CREDIT: 1 **TYPE:** Honors **GRADE:** 10-12 **NCAA**
PREREQUISITE: Successful completion of Academic Algebra 1 (3125) with a grade of 70% or higher and successful completion of either Honors Biology (4207), Biology (4204), Honors Earth Science (4107) with a grade of 80% or higher or the recommendation of the teacher of Honors Biology.

4309 Advanced Placement Chemistry

This course includes the following topics: the structure of matter, states of matter, reactions, and descriptive chemistry. Taught at the college level, this course affords advanced students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of many colleges or universities that recognize students' participation in the College Board's Advanced Placement Program. Students who complete an Advanced Placement course shall receive a weighted grade.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of Honors Chemistry (4307) or Chemistry (4304) with a grade of 80%, or Pre AP PhysChem (4408) with a grade of 75% or higher, and concurrent enrollment in Chemistry Laboratory (4310) Also, attainment of an average grade of 80% or higher average in all prior science courses and the recommendation of the most recent departmental instructor is required.
COREQUISITES: If you take this course, you must also take 4310 - Chemistry Laboratory

4310 Chemistry Laboratory

Investigations will be based on experimental procedures. A well-organized collection of laboratory reports will be required. In laboratory work, students will use sophisticated equipment. Students will conduct laboratory experiments in the areas of electro-chemistry, organic chemistry, and physical chemistry.

Unlike Advanced Placement Chemistry (4309), this course shall be weighted according to the traditional high school grading scale. Together with Advanced Placement Chemistry (4309), this course constitutes one (1) laboratory science course. It may not be counted as a separate laboratory science course. It does not fulfill one of the three Maryland State Board of Education high school graduation requirements in science. However, students who complete this course successfully earn one elective credit in science which will fulfill the additional required credit to promote rigor.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12
PREREQUISITE: Concurrent enrollment in Advanced Placement Chemistry (4309).
COREQUISITES: If you take this course, you must also take 4309 - Advanced Placement Chemistry

4404 Physics

This course provides a survey of introductory physics concepts, including a study of the following: mechanics; kinematics; Newton's Laws; universal gravitation; electricity and magnetism; thermodynamics; waves; modern physics; radiation; and nuclear reactions. Laboratory work is an integral part of this course. Scientific problem solving and applications are stressed throughout the curriculum.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12 **NCAA**
PREREQUISITE: Successful completion of Algebra 1 (3125), or Comprehensive Algebra (3123) with a grade of 70% or higher.

4407 Honors Physics

The student will first review pertinent mathematical skills and scientific measurement. Other units will focus on mechanics, heat, waves and sound, electricity and magnetism, light, atomics, and nucleonics. Laboratory exercises are based upon principles studied.
CREDIT: 1 **TYPE:** Honors **GRADE:** 10-12 **NCAA**
PREREQUISITE: Successful completion of both Academic Algebra 2 (3135) or Honors Algebra 2 (3137) and Academic Geometry (3205) or Honors Geometry (3207) with a grade of 70% or higher. Concurrent enrollment in Academic or Honors Geometry is permitted.

4408 Pre AP PhysChem

This is an accelerated chemistry and physics course designed to prepare student to enroll in AP Science courses. The structure, pacing, and student accountability of the course will mirror that of an AP science course. Students will spend one semester studying the chemistry topics of the atom, bonding, reactivity, gas laws, and solutions. The other semester will be used to investigate the physics principles of kinematics, dynamics, electrodynamics, electromagnetism, light and waves.
CREDIT: 1 **TYPE:** Pre-Advanced Placement **GRADE:** 10-11 **NCAA**
PREREQUISITE: Successful completion of both Honors Algebra 2 (3137) and Honors Biology (4207) with a grade of 80% or higher, and the recommendation of the most recent departmental instructor is required.

4419 AP Physics C: Mechanics

Students are given opportunities to develop such skills as: reading and understanding scientific and technical information; describing and explaining phenomena through the use of idealized models and the application of relevant principles; and using advanced mathematical reasoning in physics situations. Students will conduct laboratory experiments in the areas of mechanics, Newton's Laws, and kinematics. These concepts will be analyzed using mathematical applications up to and including Calculus. Taught at the college level, this course affords students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of the many colleges or universities that recognize students' participation in the College Board's Advanced Placement Program. Students who complete an Advanced Placement course shall receive a weighted grade.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of Honors Physics (4407) with an 80% or higher, and completion of AP Calculus I (3409) or concurrent enrolment in AP Calculus I (3409). Also, attainment of an average

grade of 80% or higher in all prior science courses and the recommendation of the most recent departmental instructor are required.
COREQUISITES: If you take this course, you must also take 3409 - Advanced Placement Calculus 1

4429 AP Physics C: Electricity & Magnetism

Students are given opportunities to develop such skills as: reading and understanding scientific information; describing and explaining phenomena through the use of idealized models and the application of relevant principles and definitions; and using basic mathematical reasoning in physics situations. Students will conduct laboratory experiments in the areas of electricity, magnetism, and electrostatics. These concepts will be analyzed using mathematical applications up to and including Calculus. Taught at the college level, this course affords students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of the many colleges or universities that recognize students' participation in the College Board's Advanced Placement Program. Students who complete and Advanced Placement course shall receive a weighted grade.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of Honors Physics (4407), with an 80% or higher, Pre AP PhysChem (4408) with a grade of 75% or higher, and completion of AP Calculus I (3409) or concurrent enrollment in AP Calculus I (3409). Also, attainment of an average grade of 80% or higher average in all prior science courses and the recommendation of the most recent departmental instructor are required.
COREQUISITES: If you take this course, you must also take 3409 - Advanced Placement Calculus 1

4439 AP Physics 1

This is a rigorous, college-level course in which the following topics are examined: Newtonian mechanics (including rotational dynamics and angular momentum); work, energy and power; and mechanical waves and sound with an introduction to simple electric circuits. Laboratory work is an integral part of this course. Taught at the college level, this course affords students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of the many colleges or universities that recognize students' participation in the College Board's Advanced Placement Program. Students who complete an Advanced Placement course shall receive weighted credit.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 10-12 **NCAA**
PREREQUISITE: Concurrent enrollment or successful completion of Geometry.

4449 AP Physics 2

AP Physics 2 is an algebra-based, introductory college-level physics course that explores topics such as 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. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. Taught at the college level, this course affords students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of the many colleges or universities that recognize students' participation in the College Board's Advanced Placement Program. Students who complete an Advanced Placement course shall receive weighted credit.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of 4439 - AP Physics 1

4507/4507o Honors Environmental Science

This course is being offered in a face-to-face or online environment.
This course explores the science of the environment with emphasis on biology and ecology. This course examines the interdependence of biotic and abiotic factors in the environment, nutrient and energy recycling within the ecosystem, the management of biological and physical resources, and current issues

related to society and the environment. Laboratory work and field experience constitute an integral part of this course.
Use course number 4507o if you wish to take this course online.
COURSE NOTE: This course explores the science of the environment with emphasis on biology and ecology. This course examines the interdependence of biotic and abiotic factors in the environment, nutrient and energy recycling within the ecosystem, the management of biological and physical resources, and current issues related to society and the environment. Laboratory work and field experience constitute an integral part of this course.
CREDIT: 1 **TYPE:** Honors **GRADE:** 10-12 **NCAA**
PREREQUISITE: Successful completion of Honors Biology (4207) or Biology (4204) with a grade of 80% or higher.

4509 Advanced Placement Environmental Science

This is a rigorous, college-level course in which the following topics are examined: ecosystems, human populations, renewable and nonrenewable resources, environmental quality, global issues and environmental decision-making. Taught at the college level, this course affords advanced students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of many colleges or universities that recognize students' participation in the College Board's Advanced Placement Program. Students who complete an Advanced Placement course shall receive a weighted grade. **Successful completion of Earth Science is desirable, but not required.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of Biology (4204 or 4207) and Chemistry (4304 or 4307) with a grade of 80% or higher, or Pre AP PhysChem (4408) with a grade of 75% or higher, and concurrent enrollment in Environmental Science Laboratory (4510). Also, attainment of an average grade of 80% or higher in all prior science courses and the recommendation of the most recent departmental instructor is required. Successful completion of Earth Science is desirable, but not required.
COREQUISITES: If you take this course, you must also take 4510 - Environmental Science Laboratory

4510 Environmental Science Laboratory

Students will conduct laboratory experiments in the areas of plate tectonics, soils, populations, energy, pollution, and waste management. Students must be able to conduct both guided and independent scientific investigations. Unlike Advanced Placement Environmental Science (4509), this course shall be weighted according to the traditional high school grading scale. However, students who complete this course successfully earn one elective credit in science which will fulfill the additional required credit to promote rigor.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12
PREREQUISITE: Concurrent enrollment in Advanced Placement Environmental Science (4509).
COREQUISITES: If you take this course, you must also take 4509 - Advanced Placement Environmental Science

4604 Matter and Energy

Matter and Energy will focus on the fundamentals of Physics and Chemistry. The Physics portion of the class will focus on introductory physics concepts including mechanics (forces and motion), energy, electricity, and magnetism. The Chemistry portion of the class will focus on introductory chemistry, topics including structure and properties of atoms, elements, mixtures and compounds, chemical reactions, periodic table, atomic and nuclear structure. Science and engineering practices and crosscutting concepts will be stressed throughout the class.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12 **NCAA Pending**

Social Studies

2104 Modern World History

Students review the development of ancient civilizations to provide the background for understanding American civilization and the modern world. Instruction is directed toward an understanding of the contributions of various cultures and of the events and ideas that have helped shape the institutions and political systems of the modern world. Course emphasis is on modern world history, from the Renaissance to the present.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9 **NCAA**

2107 Honors Modern World History

This course is considered preparatory for AP United States History and will emphasize AP skills, analytical thinking, and advanced writing. Focus is placed on modern world history from the Renaissance to present day. Students conduct both group and individual research projects. An extended research project culminating in a research paper or History Fair project will be assigned.
CREDIT: 1 **TYPE:** Honors **GRADE:** 9 **NCAA**

2109 AP World History - 9th grade course number

9th grade students who meet a series of rigorous pre-requisites may take AP World History.
The pre-requisites are as follows:

- Interested incoming 9th grade students may apply to be accepted into AP World History if they meet all of the following prerequisites. Students must:
- Complete the 9th grade AP World History application
- Provide student and parent signatures acknowledging the rigor and requirements of the AP World History course
- Verify that they are enrolled in 8th grade Honors social studies
- Verify that they have maintained a minimum 88% average in Honors social studies over the first semester of their 8th grade school year
- Students who meet the pre-requisites listed above will be given the opportunity to take a county generated Document Based Question (DBQ) test administered at their school and scored by AP World History teachers.
- Students who receive a minimum rubric score on the DBQ test will be given the opportunity to attend a mandatory information session along with their parent(s) or guardian(s) at the high school they will be attending. This session will be presented by the school's AP World History instructor and will provide a description of the rigorous nature of an AP course. Students who miss the session will have to make an appointment with the AP teacher to receive the information they missed.
- Those students who attend the information session and have met the aforementioned perquisites will be authorized to register for 9th grade AP World History.

This course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and concepts of World History. Students learn to assess historical materials, their relevance to a given interpretive problem, their reliability, and their importance. Using the information, students weigh the evidence and interpretations presented in the preparation of a number of essays reflecting historical scholarship. Presenting college level material, this course affords advanced students an opportunity to earn, both high school and college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of many colleges or universities that recognize students' participation in the College Board's Advanced Placement Program. A summer reading assignment and/or project will be assigned. Students who complete an Advanced Placement course shall receive a weighted grade.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 9 **NCAA**

2204 United States History

The principle focus of this course is the period from post-Civil War Reconstruction to the present. Students will learn to think critically about the economic, political, social and diplomatic history of the United States. Students will be engaged in research and writing activities.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10 **NCAA**

2207 Honors United States History

The principle focus of this course is the period from post-Civil War Reconstruction to the present. Students will learn to think critically about the economic, political, social and diplomatic history of the United States. An extended research project culminating in a research paper or History Fair project will be assigned.
CREDIT: 1 **TYPE:** Honors **GRADE:** 10 **NCAA**

2209 Advanced Placement United States History

This course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and issues of American History. Students learn to assess historical materials, their relevance to a given interpretive problem, their reliability, and their significance. Using the information, students weigh the evidence and interpretations presented in the preparation of a number of essays reflecting historical scholarship. Presenting college level material, this course affords students an opportunity to earn both high school and college credit if they attain a specific score on a national standardized examination, and if they attend one of many colleges or universities which recognize students' participation in the College Board's Advanced Placement Program. Summer reading and/or projects will be assigned. Students who complete an Advanced Placement course shall receive a weighted grade.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 10-12 **NCAA**
PREREQUISITE: Attainment of a grade of 80% or higher average in all prior required Social Studies courses, enrollment in an Honors or AP Social Studies class during the prior school year, or the recommendation of the most recent departmental instructor.

2304 American Government

In this course, constitutional government, democratic principles, political behavior, and citizens' rights and responsibilities in a democracy are studied. There is instruction about national, state, and local governments. The impact of social, economic, international, and political issues on contemporary society is also examined.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11 **NCAA**

2307 Honors American Government

Constitutional government, democratic principles, politics, and political behavior are studied in this course as they pertain to the local, state, and federal levels of government. There is an examination of the impact of major economic, social, and environmental problems. Instruction emphasizes the use of primary sources. An extended research project or History Fair project will be assigned.
CREDIT: 1 **TYPE:** Honors **GRADE:** 11 **NCAA**

2309 Advanced Placement American Government and Politics

This course will give students the opportunity to analyze government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality. Topics to be covered in the course include: Constitutional Underpinnings of U.S. Government, Political Beliefs and Behaviors, Political Parties and Interest Groups, Institutions of the National Government, Public Policy, and Civil Rights and Civil Liberties. Students will be expected to learn facts and concepts and understand typical political processes. Furthermore, students are guided to use specific information to critically evaluate general propositions about government and politics, as well as to present basic data relevant to government and politics in sustained written arguments. A summer reading assignment and/or project will be assigned. Presenting college level

material, this course affords advanced students an opportunity to earn both high school and college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of many colleges or universities that recognize students' participation in the College Board's Advanced Placement Program. Students who complete an Advanced Placement course shall receive a weighted grade.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12 **NCAA**
PREREQUISITE: Attainment of a grade of 80% or higher average in all prior required Social Studies courses, enrollment in an Honors or AP Social Studies class during the prior school year, or the recommendation of the most recent departmental instructor.

2509 Advanced Placement World History

This course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and concepts of World History. Students learn to assess historical materials, their relevance to a given interpretive problem, their reliability, and their importance. Using the information, students weigh the evidence and interpretations presented in the preparation of a number of essays reflecting historical scholarship. Presenting college level material, this course affords advanced students an opportunity to earn, both high school and college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of many colleges or universities that recognize students' participation in the College Board's Advanced Placement Program. A summer reading assignment and/or project will be assigned. Students who complete an Advanced Placement course shall receive a weighted grade.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 10-12 **NCAA**
PREREQUISITE: Attainment of a grade of 80% or higher average in all prior required Social Studies courses, enrollment in an Honors or AP Social Studies class during the prior school year, or the recommendation of the most recent departmental instructor.

2510 Introduction to Historical Investigation

Introduction to Historical Investigation offers students an opportunity to experience differentiated instruction in the area of historical exploration through the creation of individualized research projects. These projects will involve the investigation and analysis of primary and secondary sources and will mine sources such as oral history, legal documents, physical artifacts, folk tales, diaries, posters, maps, photographs, reports, and songs. Students will, among other things, go through the process of role-playing, debate, Internet research, create interactive slide presentations as well as become part of other experiential exercises. Field trips may include Calvert County Historical Society, Maryland State Archives, Maryland Historical Society, and National Archives.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: Attainment of 70% or better in the student's most recent Social Studies course.

2519 Advanced Placement European History

This course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and concepts of European History. Students are expected to demonstrate a basic knowledge of the chronology of major events and trends from approximately 1450 to 1970, that is, from the High Renaissance to the recent past. Presenting college material, this course affords advanced students an opportunity to earn both high school and college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of many colleges or universities that recognize students' participation in the College Board's Advanced Placement Program. A summer reading assignment and/or project will be assigned. Students who complete an Advanced Placement course shall receive a weighted grade.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 10-12 **NCAA**
PREREQUISITE: Attainment of a grade of 80% or higher average in all prior required Social Studies courses, enrollment in an Honors or AP Social Studies class during the prior school year, or the recommendation of the most recent departmental instructor.

2520 ICONS Global Studies

Students will participate in the International Communications and Negotiations Simulation program. Developed by the University of Maryland and supported by Maryland Initiatives in International Education, ICONS is a worldwide, multi-instructional computer assisted simulation that thrust students into the world of high level international negotiations. Students debate and negotiate issues such as global warming, biodiversity, communicable diseases, human rights, international trade, nuclear arms control and conventional arms control. When students are not engaged in the ICONS simulation, they will follow a course of study in Global Issues which will require them to research and think critically about the issues which face the world in which we live.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12 **NCAA**
PREREQUISITE: Modern World History

2530S African-American Studies

This course is designed to develop an understanding of the causes, character, and consequences of the African-American experience and its influence on the African-American community, the United States, and the world. Beginning with an historical, geographical, social, political, economic, and cultural understanding of the African continent, the course provides an overview which introduces the student to the study of the African-American experience.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 11-12 **NCAA**

2540 Psychology

Geared to the maturity of senior high school students, this course is a study of individual and group behaviors in terms of psychological principles and concepts. Experiments are conducted to help illustrate these principles. Important historical developments in psychology as well as the most recent psychological theories are examined. The student is provided the opportunity to understand the elements of hypothesis evaluation in this social science through research projects which will include surveys, data collections, interpretations, and explanations based on psychological principles and concepts.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12 **NCAA**

2549/2549o Advanced Placement Psychology

This course is being offered in a face-to-face or online environment.
This course introduces students to the systematic and scientific study of behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology, as well as methods, statistical approaches psychologists use in their science and practice. The aim in this course is to provide the student with a learning experience equivalent to that obtained in most college introductory-level psychology courses. Independent research projects and presentations are expected. This course will afford advanced students an opportunity to earn both high school and college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of the many colleges or universities that recognize students' participation in the College Board's Advanced Placement Program. A summer reading assignment and/or project will be assigned. Students who successfully complete an Advanced Placement course shall receive a weighted grade. Use course number 2549 if you wish to take this course online.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12 **NCAA**
PREREQUISITE: Attainment of a grade of 80% or higher average in all prior required Social Studies courses, enrollment in an Honors or AP Social Studies class during the prior school year, or the recommendation of the most recent departmental instructor.

2550 Sociology

This course is designed to help students understand society, social processes, and social reforms and their effects on individuals and groups. Selected sociological principles are illustrated through case studies from life situations. A unit on social psychology includes topics such as group behavior, pressure to conform, and hidden influences.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12 **NCAA**

2560S Anthropology

This course is an introduction to cultural anthropology. It is recommended for students who are interested in studying the development and interaction of different cultures. Students will study a variety of societies to learn the many ways men and women live and work in their environments. Anthropology is considered to be a complementary course with Archaeology.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 10-12 **NCAA**

2565S Archeology

This course is an introduction to the field of archaeology and physical anthropology. It is recommended for students who are interested in methods of archaeological excavation, theories of human development and historical study. Archaeology is considered to be a complementary course with Anthropology.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 10-12 **NCAA**

2580S Women's History

This course provides an in-depth study of the impact of women on the history of the United States and the world. Students will analyze the growth of women's rights and the development of a more co-equal status with men.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 10-12 **NCAA**

2700 Community Service —Independent Study

This course affords students the opportunity to earn one (1) elective credit each year of high school by participating in a community service program after school hours. Between July 1 and June 30, all course requirements must be fulfilled. Students must spend a minimum of 132 clock hours participating in a community service. Each participant is required to keep a journal about his or her community service experiences. The journal will be reviewed periodically. *Students who complete this program successfully may earn one general education elective credit, but this course may not be used to fulfill one of the graduation credit requirements in social studies. In addition, this course does not replace any of the classes that are to be scheduled during regular school hours.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12

2710S Service Learning Independent Study

Students completing this independent study course will earn (1) general elective credit by completing a service-learning activity or project during the school day. All projects/activities will be scored on a pass/fail basis and must have the prior approval of the service learning coordinator for that school before implementation. Successful completion of this course fulfills the service-learning requirement for graduation. This course may be repeated one time for credit.
CREDIT: 0.5 **TYPE:** Academic **GRADE:** 11-12

Technology Education

8000/8000o Foundations of Technology

This course is being offered in a face-to-face or online environment.
This course prepares students to understand and apply technological concepts and processes to authentic situations. Students study the nature and technological issues of the "designed world". Group and individual activities engage students in creating ideas, developing innovations, and engineering practical solutions. Technology content, resources, and on-line activities allow students to apply science, mathematics, and engineering practices throughout the year.
Use course number 8000o if you wish to take this course online.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12

8005 Introduction to Engineering Design

This foundation course emphasizes the development of a design. Students use computer software to produce, analyze and evaluate models of projects solutions. They study the design concepts of form and function, then use state-of-the-art technology to translate conceptual design into reproducible products.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Successful completion of or concurrent enrollment in Algebra I.

8010 Core Technologies & The Design World

This course focuses on engineering design and development. In this course, students will demonstrate knowledge of skills related to the core technologies (biotechnology, electrical, electronics, fluids, materials, mechanical, optical, structural and thermal) which are the building blocks of the design world by studying their functions and applying them in common technology systems. In addition, students will demonstrate knowledge of the major enterprises that produce the goods and services which include medical, agricultural, biotechnology, energy and power and information and communication. Students who successfully complete this course earn one (1) advanced technology education credit.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12
PREREQUISITE: Foundations of Technology (8000).

8020 Technology Design and Development

In this course students will demonstrate knowledge and process of engineering design and development through research and development, invention and innovation, problem solving and using and maintaining technological product systems. Students who successfully complete this course earn one (1) advanced technology education credit.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12
PREREQUISITE: Core Technologies & The Design World (8010).

World Language, ESOL, and ASL

All students are encouraged to select one or more world languages in the course of their educational studies. Students seeking admission to Maryland colleges and universities must complete a minimum of two credits of a world language OR two credits of American Sign Language. Ninth grade students who have completed one or more credits of world language in middle school should enroll in the next sequential course of their chosen world language.

French

1710 French I

This course serves as the foundation for the development of a student's proficiency in the language. Emphasis is given both to developing the basic language skills of listening, speaking, reading, and writing, and to introducing a student to the culture and daily living practices of the native speakers of the language.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12 **NCAA**

1720 French II

The student improves his/her language proficiency through the functional use of language in authentic situations in this course. Listening, speaking, reading, and writing skills are stressed. Vocabulary is gained, in part, through assigned readings.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12 **NCAA**
PREREQUISITE: Successful completion of French I (1710) with a grade of 70% or higher.

1730 French III

Language skills are expanded to include a variety of structures in this course. Literary forms are examined. Contemporary topics based on Francophile societies are studied to develop oral proficiency and cultural awareness.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12 **NCAA**
PREREQUISITE: Successful completion of French II (872) or (1720) with a grade of 70% or higher.

1740 French IV

This course emphasizes the effective use of oral and written language to meet survival and social demands. Diverse literary forms are examined. Selections depicting culture and civilization are studied.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12 **NCAA**
PREREQUISITE: Successful completion of French III (1730) with a grade of 70% or higher.

1750 Advanced French

This advanced-level course emphasizes continued language development together with more intensive study of culture, civilization, and literature.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of French IV (1740) with a grade of 70% or higher.

1759 Advanced Placement French Language and Culture

Designed for students with exceptional ability in French, this course includes aural/oral skills, reading comprehension, grammar, and composition. Taught at the college level, this course affords advanced eleventh or twelfth-grade students an opportunity to earn, in addition to high school credit, college credit and/or appropriate placement at the college level if they attain a specific score on a national standardized examination, and if they attend one of many colleges or universities which recognize students' participation in the College Board's Advanced Placement Program. Students who complete an Advanced Placement course shall receive a weighted grade.

CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of French IV (1740) with a grade of 80% or higher or the instructor's recommendation.

German

1610 German I
This course serves as the foundation for the development of a student's proficiency in the language. Emphasis is given both to developing the basic language skills of listening, speaking, reading, and writing, and to introducing a student to the culture and daily living practices of the native speakers of the language.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12 **NCAA**

1620 German II
In this course, the student improves his/her language proficiency through the functional use of language in authentic situations. Listening, speaking, reading, and writing skills are stressed. Vocabulary is gained, in part, through assigned readings.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12 **NCAA**
PREREQUISITE: Successful completion of German I (1610) with a grade of 70% or higher.

1630 German III
In German III, language skills are expanded to include a variety of structures. Literary forms are examined. Contemporary topics based on Germanic societies are studied to develop oral proficiency and cultural awareness.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of German II (1620) with a grade of 70% or higher.

1640 German IV
This course emphasizes the effective use of oral and written language to meet survival and social demands. Diverse literary forms are examined. Selections depicting culture and civilization are studied.
CREDIT: 1 **TYPE:** Academic **GRADE:** 12 **NCAA**
PREREQUISITE: Successful completion of German III (1630) with a grade of 70% or higher.

Latin

1910 Latin I
The basics of Latin grammar are taught, and a basic working vocabulary is developed. Course objectives include the following: to translate elementary Latin; to recognize English derivatives; to understand English grammar better; to appreciate the development and structure of language in general; and to appreciate Roman culture.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12 **NCAA**

Spanish

1810 Spanish I
This course serves as the foundation for the development of a student's proficiency in the language. Emphasis is given both to developing the basic language skills of listening, speaking, reading, and writing, and to introducing a student to the culture and daily living practices of the native speakers of the language.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12 **NCAA**

1820 Spanish II
In Spanish II, the student improves his/her language proficiency through the functional use of language in authentic situations. Listening, speaking, reading, and writing skills are stressed. Vocabulary is gained, in part, through assigned readings.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12 **NCAA**
PREREQUISITE: Successful completion of Spanish I (1810) with a grade of 70% or higher.

1830 Spanish III
In this course, language skills are expanded to include a variety of structures. Literary forms are examined. Contemporary topics based on Hispanic societies are studied to develop oral proficiency and cultural awareness.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12 **NCAA**
PREREQUISITE: Successful completion of Spanish II (873) or (1820) with a grade of 70% or higher.

1840 Spanish IV
Emphasis is on the effective use of oral and written language to meet survival and social demands in Spanish IV. Diverse literary forms are examined. Selections depicting culture and civilization are studied.
CREDIT: 1 **TYPE:** Academic **GRADE:** 10-12 **NCAA**
PREREQUISITE: Successful completion of Spanish III (1830) with a grade of 70% or higher.

1850 Advanced Spanish
This advanced-level course emphasizes continued language development together with more intensive study of culture, civilization, and literature.
CREDIT: 1 **TYPE:** Academic **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of Spanish IV (1840) with a grade of 70% or higher.

1859 Advanced Placement Spanish Language and Culture
This course will follow the same guidelines as AP French (1759) listed above.
CREDIT: 1 **TYPE:** Advanced Placement **GRADE:** 11-12 **NCAA**
PREREQUISITE: Successful completion of Spanish IV (1840) with a grade of 80% or higher or the instructor's recommendation.

1600 English to Speakers of Other Languages
This course is designed for students who are bilingual or whose first language is other than American English. Students will gain listening, speaking, reading and writing skills to acquire and improve basic interpersonal communication skills (BICs). In addition, students will receive support with language components necessary in content area coursework: Cognitive Academic Language Proficiency skills (CALPs). Students may earn multiple credits for this course.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12
PREREQUISITE: Placement into course based on English Language Proficiency Assessment score.

American Sign Language

1950 American Sign Language I
American Sign Language (ASL) is the language used by the majority of Deaf Americans. ASL is a visual-spatial language rather than a spoken one. The communication emphasis is on expressive skills (signing) and receptive skills (watching and comprehending) in order to understand and communicate with others. ASL has its own grammar, structure, and specific features that pose a challenge to learn, just like other spoken languages. In this course, students will learn vocabulary and grammatical structures of American Sign Language to conduct basic conversations with fluency, and explore deaf culture in order to gain a sensitivity to the culture of the deaf community. The course will include the origins of the language, the alphabet and finger spelling, and include vocabulary topics such as numbers, greetings, farewells,

personal information, classroom objects and school vocabulary, clothing and colors, daily activities, family and friends, and places and locations.
COURSE NOTE: Students in the college preparatory program pathway selecting ASL will need to successfully complete two years of ASL to meet pathway requirements.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12 **NCAA**

1960 American Sign Language II

The student improves his/her language proficiency through the functional use of language in authentic situations. Expressive and receptive skill fluencies are enhanced through continued study of culture, vocabulary, and grammar. Vocabulary topics include sports and activities, daily routines, foods, household activities, clothing, characteristics and descriptions of people, the natural world and environment, animals, hometown and community, and occupations and fields of study.
COURSE NOTE: Students in the college preparatory program pathway selecting ASL will need to successfully complete two years of ASL to meet pathway requirements.
CREDIT: 1 **TYPE:** Academic **GRADE:** 9-12 **NCAA Pending**

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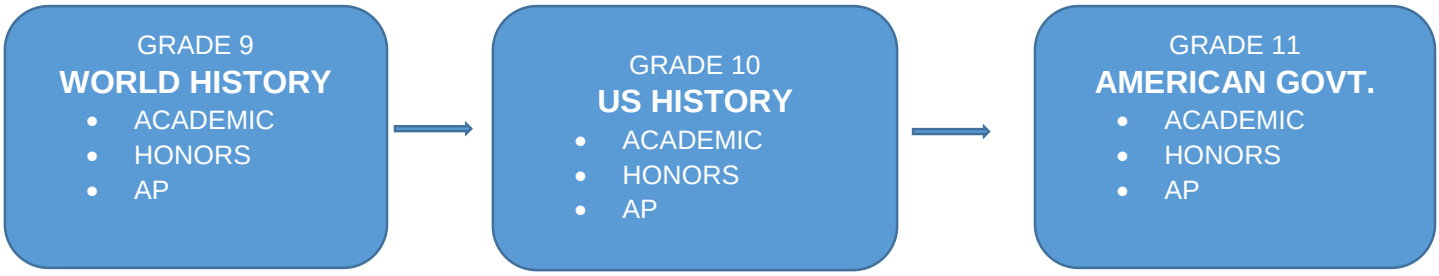
COURSE SEQUENCE CHARTS

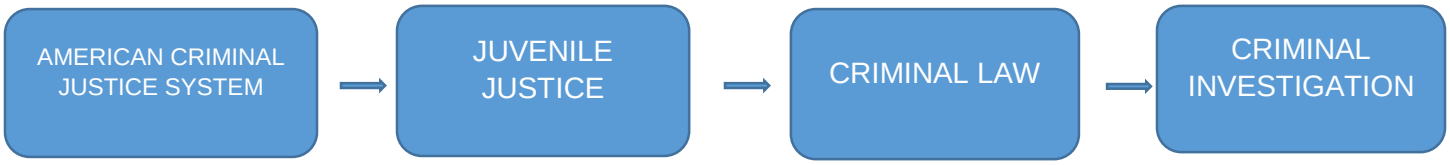
Course Sequence Chart – Social Studies

CCPS COURSE SEQUENCE AND PATHWAYS FOR HS SOCIAL STUDIES

REQUIRED COURSES FOR GRADUATION



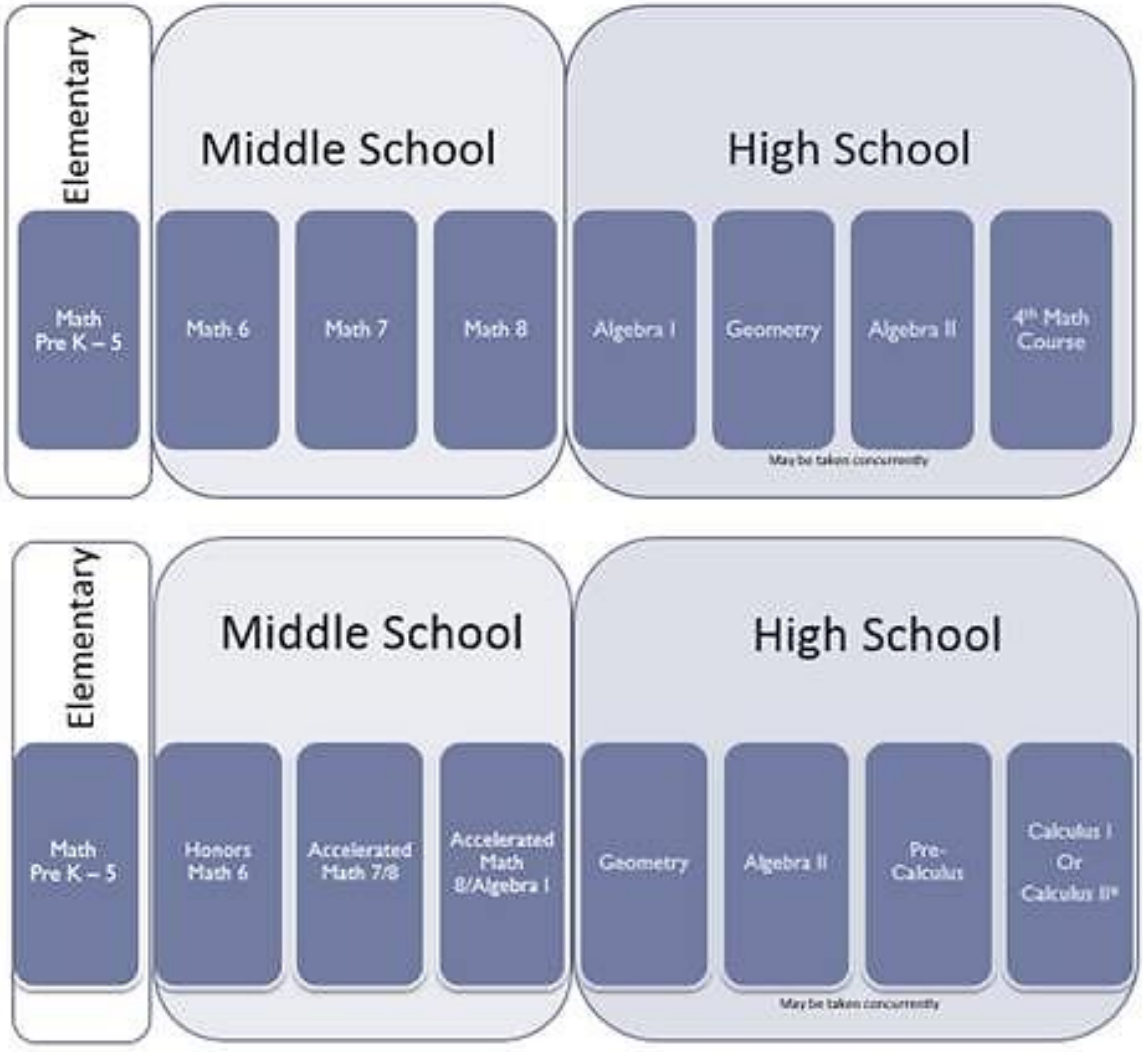
CRIMINAL JUSTICE PATHWAY



ELECTIVE SOCIAL STUDIES COURSES

Course Sequence Chart – Mathematics

CALVERT COUNTY PUBLIC SCHOOLS
MATHEMATICS SEQUENCE
2017-2018



These are the sequences of courses that are experienced by most students. Speak to your school counselor about other course sequences.

*Students can reach Calculus II or other advanced options by taking Geometry and Algebra II concurrently or by taking the Accelerated Algebra II/Pre-Calculus.

Course Sequence Chart - Science

HIGH SCHOOL SCIENCE PLACEMENT GUIDELINES

The following table reflects the sequence of course offerings and provides guidelines for placement in these courses. Since final grades are not available at the time of registration, recommendations should be made using current grades and teacher recommendations. If a student's performance changes dramatically, the school counselor will make any necessary schedule changes following notification by the teacher.

Grade 9	Grade 10	Grade 11	Grade 12
Honors Biology **4207** *Recommended placement for students earning an **80% or higher** in 8th Grade Honors Science-831 Recommend completion Accelerated Math/Algebra 1	Matter and Energy **4604** Honors Chemistry **4307** Chemistry **4304** Honors Physics **4407** Physics **4404** Pre AP Phys-Chem **4408** Honors Earth Science **4107** AP Physics 1 **4439** AP Env. Science **4509**	Matter and Energy **4604** Honors Chemistry **4307** Chemistry **4304** Honors Physics **4407** Physics **4404** Pre AP Phys-Chem **4408** Honors Env. Science **4507** Honors Earth Science **4107** AP Biology **4209** AP Chemistry **4309** AP Physics C: Mechanics **4419** AP Physics C: E & M **4429** AP Physics 1 **4439** AP Physics 2 **4449** AP Env. Science **4509**	Matter and Energy **4604** Honors Chemistry **4307** Chemistry **4304** Honors Physics **4407** Physics **4404** Pre AP Phys-Chem **4408** Honors Env. Science **4507** Honors Earth Science **4107** AP Biology **4209** AP Chemistry **4309** AP Physics C: Mechanics **4419** AP Physics C: E & M **4429** AP Physics 1 **4439** AP Physics 2 **4449** AP Env. Science **4509**
Biology **4204**	Matter and Energy **4604** Honors Chemistry **4307** Chemistry **4304** Honors Physics **4407** Physics **4404** Honors Earth Science **4107** Earth Science **4104**	Matter and Energy **4604** Honors Chemistry **4307** Chemistry **4304** Honors Physics **4407** Physics **4404** Honors Env. Science **4507** Honors Earth Science **4107** Earth Science **4104** AP Physics 1 **4439** AP Env. Science **4509**	Matter and Energy **4604** Honors Chemistry **4307** Chemistry **4304** Honors Physics **4407** Physics **4404** Honors Earth Science **4107** Earth Science **4104** AP Env. Science **4509** AP Biology **4209** AP Chemistry **4309** AP Physics 1 **4439** AP Physics 2 **4449**

Course Sequence Chart – World Language

CALVERT COUNTY PUBLIC SCHOOLS
7 - 12 WORLD LANGUAGE SEQUENCE
2017-2018

Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
World Lang. I	World Lang. II	World Lang. III	World Lang. IV	AP World Lang	ADV World Lang.
				ADV World Lang.	AP World Lang.
	World Lang. I	World Lang. II	World Lang. III	World Lang. IV	ADV World Lang.
					AP World Lang.
		World Lang. I	World Lang. II	World Lang. III	World Lang. IV
			World Lang. I	World Lang. II	World Lang. III
				World Lang. I	World Lang. II
					World Lang. I

FOUR YEAR PLAN

CALVERT COUNTY PUBLIC SCHOOLS **Class of 2021 FOUR YEAR PLAN**

Name: _____ Student Number: _____ High School: _____
Last First

Course Title Grade 9	Course Title Grade 10	Course Title Grade 11	Course Title Grade 12
English 9: _____	English 10: _____	English 11: _____	English 12: _____
World History	U.S. History	Government	
Science 1: _____	Science 2: _____	Science 3: _____	
Math: _____	Math: _____	Math: _____	Math: _____

*Students entering Grade 9 in 2014 or after must be enrolled in a math class each year they attend high school.

REQUIRED CREDITS: 23 ½

4 English
4 Mathematics
3 Social Studies
3 Science
½ Physical Education
½ Health
1 Fine Art
1 Technology Education
½ Financial Literacy
2 World Language, ASL, **OR** 2 Adv. Technology Ed. **and 3** Electives

OR

4 Credits by completing a state-approved career & technology program **and** 1 Elective

Plus, an additional credit must be earned in either Math, Science, Social Studies, English, World Lang., Naval Sc III, or any AP course, PLTW, TAM, or select Fine Art courses

HSA, Attendance and Service Learning Requirements

All students are expected to pass Maryland high school assessments in English 10, Science, American Government, and Algebra.

Students are expected to meet attendance, service learning and all local school system requirements.

My chosen high school pathway is:

- ○ College Prep
- ○ Career Technology Education (CTE)

  Program: _____
- ○ College Prep and CTE

_____ _____
Student Signature Date

_____ _____
Parent Signature Date

_____ _____
Counselor's Signature Date

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