

Liberty [High School Program of Studies](#pos)

and

[Career Pathways Planning Guide](#CareerPathwaysPlanningGuide)

2019-2020

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Carroll County Public Schools

125 North Court Street

Westminster, Maryland 21157

**HOW TO SEARCH THIS DOCUMENT:**

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Information concerning the Americans with Disabilities Act is available from the Director of Facilities or the Supervisor of Community and Media Relations.

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The following person has been designated to handle inquiries regarding the non-discrimination policies:

Gregory J. Bricca

Director of Research and Accountability

125 North Court Street

Westminster, Maryland 21157

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**CORE STATEMENT**

Carroll County Public Schools:

Building the Future

**CORE VALUES**

The Board of Education establishes the following core values:

* The pursuit of excellence
* Life-long learning and success
* A safe and orderly learning environment
* Community participation
* Fairness, honesty, and respect
* Continuous improvement
* Reflecting the priorities, beliefs, and mores of our local community

**Carroll County Public Schools**

**Westminster, Maryland**

Steven A. Lockard

Superintendent of Schools

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Assistant Superintendent of Instruction

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Director of Curriculum and Instructional Resources

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**Message from the Superintendent . . . . .**

Thank you for taking the time to review the High School Program of Studies. The purpose of this document is to help students, parents, and school counselors plan a four-year educational program for high school.

A well thought-out high school program will prepare students for college and career readiness. By using the High School Program of Studies and the attached Pathways to Careers, students have the tools they need to map out both a short-range and long-range plan for high school study.

As courses are selected, please be sure to refer to the high school graduation requirements located in this document to ensure that you meet state and local graduation requirements. Also, please be aware that while approved course offerings available in Carroll County high schools are identified, each school develops its own program from these course offerings.

Our students today will have opportunities and challenges that will prepare them for tomorrow. Choosing a course of study for each student is an important step in preparing for that future. One way we can ensure that our students are successful is by working together to provide them with the very best educational experience.

Best wishes for a successful school year.

Steven A. Lockard, Ph.D.

Superintendent of Schools

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**The High School** **Program of Studies**

**and**

**Career Pathways** **Planning Guide**

**Introduction . . . . .**

The Board of Education of Carroll County and professional staff recognize the need for students and parents to plan a high school program that enables each student to fulfill the Maryland State Graduation requirements in a manner that provides for individual interests, needs, and career goals.

It is also recognized that every student is on a pathway to a career - whether in the near or distant future. But how does a student get there, and will he or she be properly prepared? Has the student selected an education career plan suited to his or her interests and abilities? Will the student be able to enter a chosen career directly after high school, or will he or she need further training and/or higher education? These are all important questions for the student to consider before entering the highly competitive and technical workforce of the 21st century.

The **Pathways To Careers** program provides the direction needed to answer these questions. This innovative program is an integral part of the Carroll County School Improvement Plan and has been developed to accommodate all students in the school system. Consisting of six different career clusters (Arts, Business Contact, Business Operations, Science, Social Services, and Technical), the **Pathways To Careers** program . . . .

* helps students in making career decisions.
* identifies how specific courses correspond to specific careers.
* improves students’ skills and increases their potential for employability and further training and education.

**Pathways To Careers prepares students to create a career plan which . . .**

* allows them to move between job and further education.
* helps them to understand and have knowledge of a variety of jobs within a career field.
* creates awareness of training and educational opportunities.
* provides opportunity for training, re-training and further education.
* includes on-the-job experience.

To aid in planning a four-year course of study, this publication also includes a comprehensive list of all course offerings available to students. It is strongly recommended that students, parents, teachers, counselors, and administrators communicate openly in the planning and course selection process.

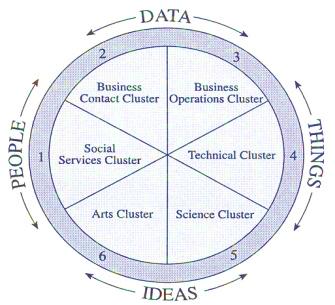
It is important to note that “No person will be denied admission to any school or to any program or course of study in Carroll County Public Schools on the basis of race, color, national origin, sex, religion, or handicap.” Any student or parent having inquiries regarding the application of these rights should contact the school principal or the Director of Student Services, 125 North Court Street, Westminster, Maryland 21157, telephone 410-751-3123\*

Not all programs and courses may be available at all schools.

*\*Board of Education Policy JFA – Approved November 14, 1979*

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**Getting Started**



**World of Work Map**\*

An illustration of the relationship between work tasks and the six career clusters (Arts, Business Contact, Business Operations, Science, Social Services, and Technical).

**Career Clusters**

Groups of occupational areas which are related to one or more of the four (4) work task areas.

**Work Task Areas**

Four identified areas: people, data, things, ideas. These are matched to a student’s interest, abilities, and preferences.

**Career Pathways**

Include specific education, work and career choices.

**Completer Program**

A series of courses in a specialized career area. Completer programs are available at the Career and Technology Centers and/or home high schools. Not all completer programs are offered at all school/centers and a completer course may be cancelled due to low enrollment. Some completer courses may be offered on alternate years.

**Articulated Program**

A specified sequence of courses (Completer Program) that can be applied toward credits or advanced standing at a particular college or technical school.

**Apprenticeship Program**

Combines supervised on-the-job training with related post-secondary instruction. It is sponsored by employers that are able to train at the workplace.

**Career Majors**

Course sequences within a specific career cluster and pathway which enable a student to work toward a career option not addressed by a career and technology completer program. A minimum of four (4) credits of specified cross curricular course work constitutes a career major. Not all Career Majors are available at all schools and a related course may be cancelled due to low enrollment. Currently, there are thirty-one (31) career majors.

\*Permission for use of the World of Work Map is granted by the American College Testing Program (ACT).

**How To Use This Book**

**The High School Planning Guide can be used through****out a student’s high school years. Students can make maximum use of the included information by following the steps below. These steps can be repeated and revisited as often as needed.**

* Complete a career interest survey to help identify your interests and skills and the career cluster area in which they are located (Arts, Business Contact, Business Operations, Science, Social Services, Technical).
* Find the completer program or career major in your preferred cluster that most closely matches your career interests and skills in the first half of this book, The Pathways To Careers.
* Look up course descriptions in the Program of Studies section in the second half of this book.
* Develop and follow your Education Career Plan **(sample on page 8)** to include the required courses for either a completer program or career major in addition to career specific electives that are of interest to you.
* Use the course selection guideline grid, which includes blank areas, as you plan when you would schedule specific courses.
* Consider transition activities, such as work-based learning or articulated and transcripted credits (college credit for high school work) that are related to specific completer programs.

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**Sample Educational Career Plan**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Subject Area***  ***(credits required)*** | ***Completed in 7th/8th Grade*** | ***CR*** | ***9th Grade*** | ***CR*** | ***10th Grade*** | ***CR*** | ***11th Grade*** | ***CR*** | ***12th Grade*** | ***CR*** |
| English (4) |  |  |  |  |  |  |  |  |  |  |
| Social Studies (3) |  |  |  |  |  |  |  |  |  |  |
| Science (3) |  |  |  |  |  |  |  |  |  |  |
| Mathematics (3) |  |  |  |  |  |  |  |  |  |  |
| Physical Education (1) |  |  |  |  |  |  |  |  |  |  |
| Health (.5) |  |  |  |  |  |  |  |  |  |  |
| Tech Education (1) |  |  |  |  |  |  |  |  |  |  |
| Financial Literacy (.5) |  |  |  |  |  |  |  |  |  |  |
| Fine Arts (1) |  |  |  |  |  |  |  |  |  |  |
| Alternatives for Meeting Graduation Requirements  (page 12) |  |  |  |  |  |  |  |  |  |  |
| World Language (2) |  |  |  |  |  |  |  |  |  |  |
| or |  |  |  |  |  |  |  |  |  |  |
| Completer Program |  |  |  |  |  |  |  |  |  |  |
| Electives |  |  |  |  |  |  |  |  |  |  |
| 25 Total Credits Required | 7th/8th Grade→ |  | 9th Grade→ |  | 10th Grade→ |  | 11th Grade→ |  | 12th Grade→ |  |

Please refer to the following when planning:

Graduation Requirements – p. 10-11; Maryland State Colleges and Universities Admission Requirements – p. 18; Rigorous High School Program – p. 20; Dual Completion – p. 20

\*This sample plan is intended to be used by parents and students for pre-planning purposes. An official Educational Career Plan will be completed in collaboration with your high school counselor.

**Need**

**To**

**Know**

**Information**



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**Graduation Requirements**

|  |  |  |
| --- | --- | --- |
| **Subject** | **Required Credits** | **Required Courses** |
| **English** | 4 | English 9, English 10, English11 or AP Language and Composition, English 12 or AP Literature and Composition |
| **Social Studies** | 3 | -Government or AP United States Government and Politics  -United States History or AP United States History  -World History or AP World History |
| **Science** | 3 | -Biology  \*Conceptual Physics and Chemistry I are Prerequisites |
| **Mathematics** | 3  All students shall enroll in a mathematics course each year of high school. | -Two credits of Algebra  -One credit of Geometry  The fourth course must be 1 credit in duration and may be selected from the Program of Studies Mathematics course offerings. |
| **Physical Education** | 1 | -Physical Education I (½ credit) |
| **Health** | ½ | -Health I |
| **Fine Arts** | 1 | Completed credit in any Fine Arts course may be applied to the Fine Arts Graduation requirements unless otherwise indicated. |
| **Technology Education** | 1 | -Foundations of Technology, Exploring Computer Science, Principles of Engineering (part of Project Lead the Way completer program), AP Computer Science Principles (not part of Project Lead the Way) |
| **World Language**  **Or American Sign Language**  **Or Advanced Technology**  **Or State Approved Career and Technology Completer Program** | 2  2  2  4-9 | -Two credits of the same World Language  -Sign Language I, II, III  -See Technology Courses  -See Completer Programs |
| **Financial Literacy** | ½ | -Financial Literacy or  -Managing Personal Finances Using Excel (1credit) |
| **Electives** | 5-12 |  |
| **Total Credits Required** | 25 |  |

NOTE: This chart will be subject to change pending any State action on graduation requirements.

**Credit will be awarded for high school courses completed successfully in middle school.**

**Additional Requirements**

* Four years of approved study beyond the eighth grade
* Four credits must be earned after the completion of grade 11
* State-mandated 75 hours of service-learning may be met by completing the course –related option and/or the exemplary service option. (see Service-Learning guidelines on p. 14)
* Students must meet the High School Assessment requirements for Algebra I, English 10, Biology, and Government. Testing requirements and passing scores vary based on the year of course completion. Details related to each content area are provided below.
* All students shall be assessed no later than 11th grade to determine if the student meets the Maryland State Department of Education criteria for College and Career Readiness in English Language Arts and Mathematics.
* Transition courses or other instructional opportunities will be delivered in the 12th grade to students who have not achieved College and Career Readiness by the end of the 11th grade.

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**High School Assessment Requirements**

Algebra I

* Students who pass the Algebra I course in the 2016-2017 school year or later will be required to pass the corresponding Maryland High School Assessment (MHSA). Students who meet the eligibility criteria also have the option to complete the Bridge Plan for Academic Validation in order to satisfy the High School Assessment requirement.

English 10

* Students who pass the English 10 course in the 2016-2017 school year or later will be required to pass the corresponding MHSA Assessment. Students who meet the eligibility criteria also have the option to complete the Bridge Plan for Academic Validation in order to satisfy the High School Assessment requirement.

Biology

* Students who have taken the Biology MHSA have met the graduation requirement. Beginning in 2017-2018, and again in 2018-2019, students taking Biology will be required to participate in the Maryland Integrated Science Assessment (MISA).
* Students who have taken and passed Biology during the 2019-2020 school year or later will be required to pass the MISA. Students who meet the eligibility criteria also have the option to complete the Bridge Plan for Academic Validation in order to satisfy the High School Assessment requirement.

Government

* Students who have passed the Government course and who have passed the corresponding MHSA have met their graduation requirement for the content area. Students who meet the eligibility criteria also have the option to complete the Bridge Plan for Academic Validation in order to satisfy the High School Assessment requirement.

Combined Score Option

* Students can meet the MHSA requirements through a combined score passing option set by MSDE. The combined score total needed to pass varies based on the year in which the assessment is taken. See your school counselor for details.

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**College and Career** **Readiness Determination**

The Maryland College and Career Readiness and College Completion Act of 2013 requires that all students in grade 11 complete an assessment to determine if they meet the criteria set forth by the Maryland State Department of Education for college and career readiness. College and career readiness is defined as the level of preparation a student needs to enroll and succeed, without remediation, in a credit-bearing course at a postsecondary institution that offers a degree or in a high quality certificate program that enables students to enter a career pathway with potential future advancement.

To be College and Career Ready (CCR), students in grade 11 (or near completion of English 11, Honors English 11, AP Language and Composition, Algebra II, or Integrated Algebra) will take MHSA English 11 and Accuplacer – College Level Math, unless the student has already earned CCR designation through an approved alternative assessment from the list below. Students can also be designated CCR when admitted to a college level, credit-bearing English or math course in 11th grade or the upcoming 12th grade based on the College’s requirements for admission and placement in such course work.

Students who do not achieve the CCR passing score on the initial assessment prior to grade 12 will be enrolled in a transition course or a course that includes additional learning experiences in grade 12. Near completion of the transition course, students will re-test for CCR by taking Accuplacer – Reading, Writing, and Sentence Skills, Accuplacer – College Level Math, or both. Students enrolled in a Career and Technology Education completer program, and not designated CCR by the end of their junior year, can meet CCR designation in their senior year by passing the related industry recognized certification exam for their career completer.

|  |  |  |
| --- | --- | --- |
| **Content Area** | **Assessment** | **Passing Score** |
| **English Language Arts** | MHSA English 11 | 4 or higher |
|  | Accuplacer –  Reading  Writing  Sentence Skills | 79 or higher  6 or higher  90 or higher |
|  | SAT Reading | 480 or higher |
|  | ACT Reading | 21 or higher |
|  | AP Language and Composition | 3 or higher |
|  | AP Literature and Composition | 3 or higher |
|  |  |  |
| **Mathematics** | Accuplacer –  College Level Math | 45 or higher |
|  | SAT Math | 530 or higher |
|  | ACT Math | 21 or higher |
|  | AP Calculus AB or BC | 3 or higher |
|  | AP Statistics | 3 or higher |
|  |  |  |

NOTE: This chart will be subject to change pending any State action on graduation requirements.

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**Carroll County Public Schools**

**Alternatives for Meeting** **Graduation Requirements**

In order to receive a diploma from Carroll County Public Schools, students must complete one of the following alternatives as a graduation requirement. Every course may not be available at all schools.

|  |  |  |  |
| --- | --- | --- | --- |
| **Alternative 1**  Two credits of a single world language. The following courses may be used to satisfy this requirement. | | | |
| ESOL I, II, III, IV  French I, II, III, IV, AP  German I, II, III, IV, AP | | Latin I, II, III, IV, AP  Spanish I, II, III, IV, AP  American Sign Language I, II, III, IV | |
| **Alternative 2**  Two credits of advanced technology education. Completion of two credits from the following courses will satisfy this requirement. | | | |
| Advanced Design Applications  Independent Study Technology Education | | Technological Design  Technological Issues and Impacts | |
| **Alternative 3**  Complete a State-approved Career and Technology Program (Completer Program). The following programs, which consist of an approved, designated sequence of courses, may be used to satisfy this requirement. | | | |
| **Program** | **Location** | | **Credits** |
| Academy of Health Professions | Carroll County Career & Technology Center | | 4 |
| Accounting | All High Schools | | 4 |
| Administrative Services | All High Schools | | 4 |
| CASE Agricultural Science - Animal | All High Schools | | 4 |
| CASE Agricultural Science - Plant | All High Schools | | 4 |
| Auto Service Technology | Carroll County Career & Technology Center | | 6 |
| Biomedical Sciences (Project Lead The Way) | Carroll County Career and Technology Center | | 4 |
| Building Maintenance - Option 1 | Carroll County Career & Technology Center | | ~~4~~ |
| Business Administration and Management | All High Schools | | 4 |
| Career Research & Development | Gateway School and Flexible Student Support | | 4 |
| Carpentry | Carroll County Career & Technology Center | | 6 |
| Cisco Networking Academy | Carroll County Career & Technology Center | | 6 |
| Collision Repair Technology | Carroll County Career & Technology Center | | 6 |
| Computer Science | Carroll County Career & Technology Center | | 4 |
| Cosmetology | Carroll County Career & Technology Center | | 9 |
| Culinary Arts | Carroll County Career & Technology Center | | 6 |
| Drafting | Carroll County Career & Technology Center | | 6 |
| Early Childhood Education | All High Schools | | 5 |
| Education – Middle and High School  (Teacher Academy of Maryland) | Combination - All High Schools | | 4 |
| Electrical Construction | Carroll County Career & Technology Center | | 6 |
| Engineering (Project Lead The Way) | Carroll County Career & Technology Center | | 5 |
| Financial Services (Academy of Finance) | Combination – All High Schools | | 5 |
| Food Service and Hospitality Management (ProStart) | Combination - All High Schools | | 4 |
| Heavy Equipment and Truck Technology | Carroll County Career & Technology Center | | 6 |
| Homeland Security and Emergency  Preparedness: Criminal Justice/Law Enforcement | Carroll County Career & Technology Center | | 4 |
| Homeland Security and Emergency Preparedness: Geographic Information Systems & Technology | Westminster High School | | 4 |
| HVAC | Carroll County Career & Technology Center | | 6 |
| Applied Mechanical Engineering | Carroll County Career & Technology Center | | 6 |
| Marketing | All High Schools | | 4 |
| Masonry | Carroll County Career & Technology Center | | 6 |
| Print Production (Print Ed) | Combination: All High Schools and Carroll County Career and Technology Center | | 4 |
| Textiles and Fashion Careers - Option 1 | Carroll County Career and Technology Center | | 6 |
| Textiles and Fashion Careers - Option 2 | Combination: All High Schools and Carroll County Career & Technology Center | | 5 |
| Video Production | Combination: All High Schools and Carroll County Career and Technology Center | | 4 |
| Welding Technology | Carroll County Career & Technology Center | | 6 |
| Wildlife and Natural Resources | All High Schools | | 4 |

**Carroll County Public Schools**

**Service-Lear****ning Program**

**MISSION STATEMENT**

The Carroll County Service-Learning Program has been designed to benefit the student, school, and the community through developmentally appropriate service-learning opportunities.

**DEFINITION OF SERVICE-LEARNING**

Service-Learning is a teaching method that combines meaningful service to the community with curriculum-based learning. Students improve their academic skills by applying what they learn in school to the real world; they then reflect on their experience to reinforce the link between their service and their learning. Service-Learning includes; preparation, identifying projects and learning skills; and action. Students can meet the needs of the community three ways:

Direct Service: Students have face-to-face contact with the service recipients, such as serving meals at a homeless shelter or volunteering at a nursing home.

Indirect Service: Students perform a service without having face-to-face contact with the recipient, such as participating in food and clothing drives and fundraising.

Advocacy: Students educate others about a particular issue, such as writing letters to legislators or editors and displaying posters to targeted audiences.

Students will reflect and evaluate projects through discussion or completion of the writing prompt on the Service-Learning Reflection form.

**CARROLL COUNTY GUIDELINES**

1. Students, parents, and individuals/organizations who accept student volunteers are hereby advised that the fact that Service- Learning is mandated is not a sufficient basis for attaching liability to the Carroll County Public Schools. The Board of Education of Carroll County does not provide general liability insurance for individuals or organizations for whom students may perform student service. Parents or guardians of student and individuals or organizations that accept student volunteers should verify the adequacy of their own insurance coverage.
2. The Carroll County Program will meet or exceed the minimum number of hours (75) of Service-Learning as required by the State of Maryland. Students may count a maximum of 20% of total practice and preparation time for a service-learning activity, unless pre-approved by the school’s Service-Learning Coordinator.
3. Students may meet the Service-Learning Graduation Requirement by completing the Course-Related Option or by completing the Exemplary Service Award Option.
4. Students may accumulate service hours beginning the summer after the completion of grade 5 through grade 12; and, may complete the requirement any time during that period. Students must complete a minimum of 55 Service-Learning hours by the end of the eleventh grade in order to be promoted to senior status.
5. Service-Learning hours will be pro-rated for students transferring into Carroll County Schools from private or out-of-state schools after the completion of their freshman year. For those students transferring into CCPS after the freshman year, the hours are pro-rated as follows: Sophomores are required to complete 40 hours; junior year 30 hours; first semester of the senior year 10 hours; second semester of senior year 5 hours.
6. Service-Learning activities will be approved by the school principal or student service coordinator. Students shall not be paid for their service and shall not earn hours for service to a for-profit agency or business. Students shall not earn hours for service in preparation for or during religious services; not earn hours for assisting family members with tasks such as cutting the lawn or babysitting; not be excused from school to earn service-learning hours. Check with the school coordinator for clarification.
7. Students choosing the Exemplary Service Option must document service-learning hours on the Service-Learning Reflection Form (form on front).

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**COURSE-RELATED SERVICE OPTION**

Students may fulfill the Service-Learning Graduation Requirement by successfully completing courses that contain a service-learning component. Students must earn the minimum of 75 service-learning hours to satisfy the Service-Learning Requirement. The number of hours each course provides is listed below.

**Middle School Courses Providing Hours:**

6th grade Outdoor Education (10 hours)

8th grade Family & Consumer Sciences (15 hours)

Learning for Independence Job Readiness (15 hours)

**High School Courses Providing 5-15-30 Hours:**

Advanced Laboratory-Child Development (30 hours)

Aquatic Environmental Science (15 hours)

Child Development Laboratory (30 hours)

Government / Honors Government (5 hours)

Terrestrial Environmental Science (15 hours

**High School Courses Providing 10 Hours**

Academic Department Assistant+

Advanced Cosmetology: Theory & Application

Applied Art

Auto Service Technology I, II

Building Maintenance

Culinary Arts I and II

Electrical Construction I, II

Honors International Studies

Independent Study – Student Service Learning+

Issues in American Society

Mastery of Cosmetology

Newspaper Production / Honors Newspaper Production+

Peer Facilitating+

Principles & Practices of Cosmetology

Science Research I, II, III / Honors Science Research I, II, III

Textiles and Fashion Careers I, II

US History / Honors US History

Video Production

Yearbook Production / Honors Yearbook Production+

\*Students may earn Service-Learning hours in additional courses with the prior consent of the instructor.

+Students may earn 10 Service-Learning hours for the ½ credit course; 20 Service-Learning hours for the 1 credit course; 40 Service-Learning hours for 2 credit course.

**EXEMPLARY SERVICE AWARD**

Students who complete a minimum of 300 service-learning hours by May 1 of their senior year will earn the Exemplary Service Award and will be honored with a certificate upon graduation.

Service-Learning hours must be documented on a Service-Learning Reflection Form and approved by the Service-Learning Coordinator in the same year in which the service is performed.

**COURSE SELECTION AND ENROLLMENT OPTIONS**

**FLEXIBLE** **STUDENT SUPPORT**

This alternative program offers credit classes in English, social studies, science, health, math, fine arts, and occupational programs for students who have withdrawn from high school and need only a few credits to meet graduation requirements, or who are enrolled in daytime high school and need to take advantage of the course offerings available through Flexible Student Support programs.

* **Student Support Center** – traditional instruction in a school class setting.
* **Distance Learning** – a facilitator is on-site for on-line courses.
* **Career Research & Development** – classroom instruction combined with work experience leading to a completer program.

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Students are required to follow all policies and procedures of Carroll County Public Schools while enrolled in these programs.

Credits earned are transferred back to the student’s home school to apply toward graduation requirements.

For further information, contact the Pupil Personnel Worker assigned to your school or call 410-751-3145.

**Dual** **Enrollment**

Dual enrollment provides high school juniors and seniors the opportunity to enroll in college level courses through local public colleges while enrolled in a Carroll County public high school. Dually enrolled students may take college courses for which they have met the prerequisite requirements and for which they have received authorization by both a parent/guardian and a designated school official. Billing will be handled by the college with appropriate discounts applied. Students eligible for free and reduced meals will have the tuition waived. Students/parents will be responsible for all other expenses and fees. Eligibility for dual enrollment is as follows:

1. Must be enrolled in at least the equivalent of one-credit CCPS course during the semester of the dual enrollment;
2. Must have an overall, non-weighted GPA of at least 3.0;
3. Must be of at least “junior” status on the start date of the semester ofdual enrollment**;**
4. Must enroll in at least one qualifying (non-remedial) college course;
5. Must be enrolled in a total of four credits for the semester (college and minimum of 1 CCPS credit combined);
6. Must have met minimum Service-learning hours requirement (75 hours)
7. Must have a 94% attendance rate during the nine weeks (marking period) preceding the application for the dual enrollment program.

Prior to the student enrolling in the dual enrollment program, a parent conference will be held with the school counselor for post-secondary planning. The student/parent must complete the **Dual Enrollment Application.** Dual enrollmentcourses will be reflected on the student’s high school transcript and the final grade will be calculated into the high school GPA. College courses at the 100 level or above will receive .5 high school credit for 1-2 college course credits and 1.0 high school credit for 3-5 college course credits. Dual enrollment courses will be weighted as a transcripted/AP course and may count toward graduation requirements. Students may take summer college courses to be added to the high school transcript, with prior approval from the principal. There is no financial discount for courses taken in the summer.

**ALTERNATIVES TO** **FOUR-YEAR ENROLLMENT**

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:

**Early College Admission Program**

A student may receive a Maryland High School Diploma after completion of grade 11 through acceptance in the early college admission program, provided that:

* The student is accepted for early admission to an accredited college before high school graduation;
* All State assessment prerequisites, the 25 credits, specified credits, and service-learning requirements have been met;
* A written request by the student and parent or guardian is made to and approved by the local superintendent of schools, asking the waiver of the fourth year attendance requirement and certifying the early admission acceptance.
* The student’s program for the first year of college is approved by the local superintendent of schools if this program is included toward the issuance of a diploma; and at the conclusion of a full year of study, a written request for a Maryland High School Diploma is submitted to the superintendent together with a transcript or letter from the college to the high school principal indicating that the student has successfully completed a year of college work.

**Early Admission to Approved Vocational, Technical, or Other Post-secondary School**

A student may receive a Maryland High School Diploma after completion of grade 11 through acceptance in an early admission program of an approved vocational, technical, or post-high school if:

* The student is accepted for early admission by an approved vocational, technical, or post-secondary school before high school graduation;
* All State assessment prerequisites, the 25 credit, specified credit, and student service requirements have been met.
* A written request by the student and parent or guardian is made to and approved by the local superintendent of schools, asking the waiver of the fourth year requirement and certifying the early admission acceptance.

**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.

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**Credit by Exam**

In Carroll County, credit toward high school graduation may not be earned by passing an examination, except in the case of seniors who have already completed all requirements for the Maryland High School Diploma except for a credit in either English 12 or Algebra II. According to COMAR 13A.03.02.05, rising seniors may earn credit by using specific tests.

English 12: Students who desire to obtain Maryland High School Graduation credit for English 12 must take two tests; SAT and SAT Subject Test in Literature. To obtain the credit, the students must achieve a minimum combined score of 1080 on the SAT Subject Test in Literature and the writing portion of the SAT with a minimum of 520 on the writing portion of the SAT.

Algebra II: Students who wish to receive Maryland high school Graduation credit for Algebra II must achieve a minimum of 1150 on the American Diploma Project Algebra II exam.

A student choosing this option must put their request in writing to the principal prior to the start of the senior year.

**COLLEGE ATHLETIC ELIGIBILITY**

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

1. graduation from high school with 2 world language credits earned during grades 9 through 12;
2. graduation from high school with mathematics credits through Algebra II;
3. minimum core grade point average;
4. minimum ACT or SAT test score; and
5. completion of 16 core courses.

Planning for college and college athletics should begin in grade nine in order to complete the core courses. Students should register with the NCAA clearinghouse by the end of their junior year. Check with your school counselor for information concerning the specifics of the above criteria. CCPS Courses that meet NCAA eligibility criteria are marked with a 🏋 in the course descriptions.

**ENROLLMENT CRITERIA FOR COURSES AT THE CAREER AND TECHNOLOGY CENTERS AND REGIONALIZED PROGRAMS**

The Carroll County Career and Technology Center is a career specialization school. Students enrolled in a program at the center are also enrolled in their home schools where supporting course work and extracurricular activities are provided.

Except where noted, transportation to the Career and Technology Center is provided on a round-trip basis from the home school. Many of the Career and Technology courses include internships. These experiences are often off school property. Transportation to these experiences shall be the responsibility of the parent/guardian. Students are required to purchase uniforms in many of the career and technology programs and to wear appropriate safety apparel.

Students may apply to any of the programs provided they meet prerequisites for specific courses and complete application requirements. Students are selected on the probability of success in Career and Technology Programs. The minimum requirements to be enrolled into a Career and Technology Program are:

* 94% attendance;
* 2.0 Grade Point Average in academic-level, or higher, course work;
* successful completion of the required prerequisites;
* promotion to the 11th grade; and
* completion of course work as indicated in the Pathways To Careers;

Students not meeting these requirements may be considered at a later date for enrollment by improving grades, attendance, and course work.

Programs vary in number of credits and prerequisites. Pathways To Careers and the course descriptions in the Program of Studies should be used in preparing a comprehensive high school plan.

Note for all Career and Technology Education Programs:

End of program assessments may be required for all completer programs at both career and technology centers and comprehensive high schools.

**CAREER RELATED INTERNSHIPS**

Career Related internships are the culminating (capstone) experience for students who have explored a career area by following a career major or completer sequence as outlined in *Pathways To Careers*. This program is operated by Carroll County Public Schools in partnership with participating employers. Internship placement and supervision are facilitated by the career coordinator at each comprehensive high school and the Carroll County Career and Technology Center. Students are placed at a work site according to aptitude, ability, preparation, interest, and career plan.

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Students seeking an internship in a career area related to a career and technology education completer program must complete the program prior to or concurrent with the internship. The internship experience is guided by an individualized training plan that has been established through the cooperative effort of the student, school and employer.

Eligibility for an internship includes but is not limited to:

* 1. Senior status during scheduled internship;
  2. 2.5 grade point average;
  3. 94% attendance during the previous quarter;
  4. HSA requirements met;
  5. 75 service-learning hours completed;
  6. completed at least 3 credits of a completer or career major; and
  7. acceptable behavior/disciplinary record.

**MARYLAND STATE COLLEGES AND UNIVERSITIES ADMISSION REQUIREMENTS**

The University System of Maryland (USM) policy encourages students to take challenging high school courses that will prepare them for success upon entering the University. The courses listed below, along with an acceptable standardized test score and a grade point average equivalent to a C or better, represent the minimum high school requirements for entry in the USM institutions. Individual campuses and programs may have additional admission requirements. Students should seek out these specific requirements by writing the admissions office at their campus of choice.

**Minimum Course Requirements for Admission**

|  |  |  |
| --- | --- | --- |
| **Subject** | | **Credits** |
| **English** | | 4 |
| **World Language or Advanced Technology** | | 2\* |
| **Social Science/History**   * Government * United States History * World History | | 3 |
| **Mathematics**   * Algebra I * Geometry * Algebra II | Students who complete Algebra II prior to their final year must complete the four-year Mathematics requirement by taking a course or courses that utilize non-trivial Algebra. | 4\*\* |
| **Science**  In at least two different areas, with at least two lab experiences. | | 3\*\*\* |

\*Each institution will determine whether Advanced Technology credits will be accepted in lieu of World Language. Please contact the institution(s) of your choice for information.

\*\*Students who have completed all available mathematics courses prior to their senior year should speak with a counselor regarding fourth year math options.

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

Consideration for admission is also based on the rigor of coursework, performance on high school assessments, trends in performance, citizenship and leadership, special talents, and personal circumstances.

**MARYLAND STATE SEAL OF BILITERACY**

The Maryland State Seal of Biliteracy (MSSB) is an award from the Maryland State Board of Education that recognizes a student’s high level of proficiency in listening, speaking, reading, and writing in English and one or more additional languages. The MSSB is based on the premise that high school graduates who can function in two or more languages are well equipped with the knowledge and skills needed to participate successfully in college, career, and a diverse 21st century society. Eligible students must pass the required Maryland high school English assessment (MHSA) and an MSDE approved world language assessment. For information regarding guidelines, requirements, and assessments, contact the Assistant Supervisor of World Languages.

**OnLine Course OPTION**

Carroll County Public Schools believes that web-delivered courses provide alternative opportunities in the delivery of instruction for our students. Courses are designed to expand student access to challenging curricula aligned to the Maryland Content Standards and the State Curriculum through the delivery of high-quality online courses for high school credit.

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These courses are consistent with the regular school program; however, teaching is primarily conducted online with the teacher physically separated from the students. Students work independently and at various times of the day or week. Teachers communicate with students online and via telephone. Each school has a support system for students taking online courses and management of online courses resides at the local school.

Courses offered through an online option have been reviewed and accepted by MSDE and/or CCPS for approved credit and are taught by highly-qualified teachers. Schools placing students in an online course are responsible for providing a mentor teacher and providing computer access. Courses are scheduled during the regular school day.

Students are able to register for online courses only under exceptional circumstances that prevent enrollment in a traditional face-to-face classroom setting. Only the principal has the authority to approve student placement in an online course. Please contact your school counselor for more information.

**HONORS AND ADVANCED PLACEMENT**

**HONORS AND ADVANCED PLACEMENT COURSES**

Honors courses differ from academic courses in that they require students to be more independent, creative, and extensive in the pursuit of topics and concepts. They are more rigorous, not because of a greater quantity of work, but because students will explore topics to a greater depth, using inquiry and problem-solving approaches.

Typically, students who are successful taking honors courses are highly motivated and are high achievers. They learn rapidly, can make generalizations and understand complex concepts, and produce original and creative products. They accept responsibility for their own learning and strive to maintain good work habits, interest, attitude, and a commitment necessary for high achievement.

Open Enrollment Policy – All students who meet the prerequisites shall be given the opportunity to enroll in honors or Advanced Placement (AP) courses.

**ADVANCED PLACEMENT TESTING**

Opportunities are available for highly motivated students to participate in the Advanced Placement Program administered by the College Board. Advanced Placement examinations are offered annually to give high-school students opportunities to demonstrate college-level achievements. As with other College Board examinations, students pay a fee for each Advanced Placement examination they take. Advanced Placement examinations are administered annually in May. Individual students should see school counselors for specific information relative to the Advanced Placement Program.

In order to provide instructional assistance to highly motivated students interested in the Advanced Placement Testing, specific course opportunities have been developed in Carroll County high schools. Courses specifically identified as such include:

**Career and Technology Education**

* AP Computer Science A
* AP Computer Science Principles

**English**

* AP Language & Composition
* AP Literature & Composition

**Fine Arts**

* AP Studio Art
* AP Studio Art: 3D Design
* AP Studio Art: 2D Design
* AP Music Theory

**Science**

* AP Physics I
* AP Chemistry
* AP Biology
* AP Environmental Science
* AP Physics C

**Mathematics**

* AP Calculus – AB
* AP Calculus – BC
* AP Statistics

**World Languages**

* AP French Language and Culture
* AP Spanish Language and Culture
* AP Spanish Literature and Culture
* AP German Language and Culture
* AP Latin

**Social Studies**

* AP United States History
* AP World History
* AP European History
* AP Human Geography
* AP Macroeconomics
* AP Psychology
* AP US Government and Politics

Students and parents should understand that extra demands are essential for success on the Advanced Placement examinations and that the individual student must pursue studies on a personal basis. In each of the courses designated above, teachers will assist the student in identifying the content covered by a particular Advanced Placement test and offer individualized instructional assistance within the structure of the course.

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**Grade Point Averages and Rankings**

**DUAL SYSTEM FOR REPORTING GRADE POINT AVERAGES/CLASS RANK**

Students in Carroll County Public Schools receive a weighted and non-weighted Grade Point Average (GPA)/class rank determined by the final grade of each course. The dual GPA/class rank system is based on the assignment of quality points. The charts below identify the quality points assigned in both the weighted and non-weighted systems.

**CARROLL COUNTY PUBLIC SCHOOLS**

**ACADEMIC PROGRAM**

Students in Carroll County Public Schools receive a weighted and non-weighted Grade Point Average (GPA)/class rank determined by the final grade of each course. The dual GPA/class rank system is based on the assignment of quality points. The charts below identify the quality points assigned in both the weighted and non-weighted systems.

**Weighted GPA**  **Non-Weighted GPA**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **AP/Transcripted** | **Honors** | **Academic/Articulated** | **For All Students, In All Courses, At All Levels** |
| A | 5.0 | 4.5 | 4.0 | A = 4.0 |
| B | 4.0 | 3.5 | 3.0 | B = 3.0 |
| C | 3.0 | 2.5 | 2.0 | C = 2.0 |
| D | 1.0 | 1.0 | 1.0 | D = 1.0 |
| F | 0 | 0 | 0 | F = 0 |

All scholarships from the Maryland State Scholarship Program are granted based on criteria using a non-weighted GPA. Recipients of the Governor’s Award shall be selected based on the weighted GPA rankings. Recipients of the Presidential Academic Excellence Award will be based on unweighted GPA. Each school’s honor roll shall be determined using the weighted GPA. Students are selected at each high school for the National Honor Society based on established county criteria. Current cumulative weighted and non-weighted grade point average, as well as honor roll status, shall be listed on each report. The weighted and non-weighted GPA will be included on a student transcript.

Please consult your school counseling office for additional information and procedures.

**MARYLAND SCHOLARS PROGRAM**

The Maryland Scholars Program is designed to increase the percentage of students who complete rigorous coursework and are well prepared to succeed in college and the workplace. A major component of the Maryland Scholars Program is focusing eighth and ninth grade students on the importance of their course selections for high school and the pivotal role higher-level math and science courses play in future career opportunities. The program relies on business volunteers to deliver the message to students in their classrooms about the connection between achievement in school and success in life.

Students must successfully complete the following course of study:

4 credits of English

4 credits of Math

3 credits of Lab Science (Biology, Chemistry, Conceptual Physics/Physics)

3 credits of Social Studies (Government, U.S. History, World History)

2 credits of the same World Language

Students must attain a minimum GPA non-weighted of 3.0 to qualify.

**Rigorous High School Program**

The Maryland State Department of Education defines a rigorous high school program as one where graduates master four of the six performance indicators:

* Two or more credits in the same World Language with a grade of B or better;
* One or more credits in mathematics courses at a level higher than Algebra II and Geometry with a grade of B or better;
* Four credits of science with a grade of B or better;
* Two or more credits of approved advanced technology education with a grade of B or better;
* A score of 1000 or higher on SAT-1 or a score of 20 or higher on ACT, or both; and
* A cumulative grade point average of 3.0 or higher on a 4.0 scale.

When making course selections students and parents should strive to meet or exceed the minimum standards for a rigorous high school program.

**Dual COMPLETER**

A secondary student who completes the course entry requirements for the University System of Maryland with a C or better in all courses and has completed a Career and Technology completer program is designated as a dual completer.

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**Career and Technology Education (CTE)**

Prepares Students to be Career and College Ready

Students who graduate from CTE programs are successfully prepared to participate in the work force and post-secondary education.

**CAREER READY** students have the knowledge, skills and career experience to be successful in the modern day, competitive, workforce. CTE students have opportunities to earn industry certifications through technical skill testing and/or valuable program affiliations with professional organizations. CTE programs require industry-based curriculum, industrial grade equipment, specific teacher credentials and regular program monitoring by industry experts. In addition, program staff regularly meet with local businesses and colleges/post-secondary education institutions to make sure CTE programs provide students with the knowledge, skills and experiences necessary to be successful in their chosen field. As a culminating experience, students who complete a CTE pathway may be eligible to enroll in a career related internship. These internships blend academic and technical knowledge and skills with the real work experiences and career ready practices necessary for students to thrive in today’s workplace.

**COLLEGE READY** students are prepared for the rigors of post-secondary education. Through extensive partnerships CTE students can earn college credits while still in high school (see table below). CCPS works with colleges to annually review CTE curricula and competencies to ensure alignment with college standards and expectations. Students can earn articulated credits for which they must meet certain criteria and enroll in the specific college/university. In some cases, students earn transcripted credit (noted below with an\*); credits awarded that transfer to other colleges/universities.

| **Career Pathway** | **Program** | **Areas of Certification/Professional Affiliation** | **College/University** | **College Credits** |
| --- | --- | --- | --- | --- |
| **Arts, Media**  **and Communication** | Print  Production | PrintED - Graphic Arts Education & Research Foundation (GAERF)   * Graphic Communications * Digital File Preparation /Digital File Output | Bridgemont Community Technical College  Carroll Community College  Montgomery Community College | 16  3  4 |
| Video Production | Partners with the Community Media Center  (with state of the art HD cameras and Final Cut Pro professional editing software) | Art Institute | 4 |
| **Business Management & Finance** | Accounting | Credit earned on a transcript for ACCT 101 through Carroll Community College\* | Carroll Community College  Frederick Community College  Pennsylvania College of Technology | 3\*  3  TBD |
| Administrative Services | Microsoft Office Specialist (MOS) Certification   * Specialist Word/Specialist Excel | Carroll Community College  Pennsylvania College of Technology | Up to 19  TBD |
| Business Administration & Management | College Board:   * CLEP Exam-College Level Exam Program | Community College of Baltimore Co.  Fredrick Community College  Pennsylvania College of Technology | 9  6  TBD |
| Financial Service  Academy of Finance | National Academy Foundation (Model Academy)   * NAF Certification   Dual Completion with Financial Management Course   * FN215 at Carroll Community College | Frederick Community College  Pennsylvania College of Technology  Carroll Community College (ACCT 101; FN 215) | 12  TBD  6\* |
| Marketing | CLEP Exam-College Level Exam Program Credit | Community College of Baltimore County | 6 |
| **Construction & Development** | Building  Maintenance | NCCT© Academic Core v2  OSHA-10 Certified |  |  |
| Carpentry | OSHA-10 Certified  NCCT© Academic Core v2, plus   * NCCT Academic Carpentry * NCCT Academic Electrical Construction * NCCT Academic HVAC * NCCT Academic Masonry   National Registry (NCCER)  Associated Builders & Contractors Apprenticeship | Community College of Baltimore Co.  Pennsylvania College of Technology | 6  Up to 9 |
| Electrical  Construction | Community College of Baltimore County  Frederick Community College  Pennsylvania College of Technology | 6  7  TBD |
| HVAC | Community College of Baltimore Co.  Frederick Community College  Pennsylvania College of Technology  University of Northwestern Ohio | 22  10  Up to 12  6 |
| Masonry | Community College of Baltimore County  Pennsylvania College of Technology | 6  Up to 9 |
| **Consumer Services & Hospitality** | Culinary Arts/Professional Cook | American Culinary Federation© (ACF)-   * Culinary Arts * Retail Commercial Baking   Restaurant Association of Maryland   * ServSafe©- Food manager | Anne Arundel CC  Culinary Institute of America  Fredrick Community College  Howard Community College  Pennsylvania College of Technology  Stratford University | 3  3  6  7  TBD  18 |
| Culinary Arts/Baking & Pastry |
| Food Service & Hospitality Management | Restaurant Association of Maryland   * ServSafe©- Food manager | Paul Smith's College | 6 |
| Cosmetology | Maryland Board of Cosmetology Exam/Certification:   * Cosmetologist License * 1500 clinical hours |  |  |
| Textiles & Fashion Careers | Garment Studio Construction©-college level fashion curriculum | Stevenson University | 3 |
| **Environmental, Agriculture & Natural Resources** | Agricultural Sciences (CASE)- Option 1: Animal  Option 2: Plant | Curriculum for Agricultural Sciences Education (CASE)  UMD-Institute of Applied Agriculture (Portfolio Review) | Community College of Baltimore Co.  Rutgers  University of Maryland | 2-3  6  3 |
| Wildlife and Natural Resources |  | Allegany College  Pennsylvania College of Technology | 2+  TBD |
| **Health & Biosciences** | Academy of Health Professions: Nursing | Maryland State Board of Nursing Certifications:   * Certified Nursing Assistant (CNA), * Geriatric Nursing Assistant (GNA), * Medical Assistant Certification (CCMA), * Certified Pharmacy Tech (CPhT)   CPR Certification | Carroll Community College  Frederick Community College  Pennsylvania College of Technology  Stevenson University | TBD  10  TBD  4 |
| Academy of Health Professions: Physical Rehabilitation | Partners with local sports medicine and physical rehabilitation organizations | Carroll Community College | Pending |
| Biomedical Sciences-Project Lead the Way© | Certified by Project Lead the Way©  Credit earned on a transcript\* | Frederick Community College  Indiana University of PA  Missouri University of Science & Tech  Stevenson University | 14  12  12\*  8 |
| **Human Resources Services** | Early Childhood Education | Praxis: Core or Praxis: ParaPro  99 hour child care certificate  Partner with local childcare centers and elementary schools to provide qualified students with internships in their senior year | Carroll Community College  Frederick Community College  Pennsylvania College of Technology  Stevenson University | 6  6  TBD  6 |
| Homeland Security and Emergency Preparedness:  Criminal Justice | Credit earned on a transcript for CRIM 101 through Carroll Community College\* | Carroll Community College  Frederick Community College  University of Maryland, University College | 3\*  3  3 |
| Homeland Security & Emergency Preparedness:  Geographical Information  Systems Technology | Geographic Information Systems  Spatial Technology and Remote Sensing (S.T.A.R.S.) Certification | Community College of Baltimore Co.  Frederick Community College | 3  3 |
| Teacher Academy of MD | Praxis: Core or Praxis: ParaPro  Qualifying students participate in CCPS middle school based internships | Bowie State, Carroll Community College, Community College of Baltimore County, Coppin State, Frederick Community College, Frostburg, Hood College, Morgan State, Salisbury, St. Mary’s, Stevenson, Towson | 3  (for each) |
| **Information Technology** | CISCO Networking Academy© | Cisco© Systems:   * CISCO Certified Network Entry Technician (CCENT), * CISCO Certified Network Associate (CCNA) | Community College of Baltimore Co.  Frederick Community College  Pennsylvania College of Technology | 16  18  TBD |
| Computer Science- Project Lead the Way© | Certified by Project Lead the Way©  College Board: AP Computer Science A; AP Computer Science Principles | Carroll Community College  Community College of Baltimore Co.  Pennsylvania College of Technology | 7  10  TBD |
| Manuf**acturing, Engineering & Technology** | Drafting | AutoCAD© Certification Test | Community College of Baltimore Co.  Frederick Community College  Pennsylvania College of Technology | 6  6  TBD |
| Engineering- Project Lead the Way© | Certified by Project Lead the Way©  Credit earned on a transcript\* | Community College of Baltimore Co.  Frederick Community College  Pennsylvania College of Technology  Rochester Institute of Technology\*  University of MD, Baltimore Co.  University of MD, Eastern Shore | 6  3  TBD  12  3  6 |
| Applied Mechanical Engineering | National Institute of Metal Working Skills (NIMS©):   * Measurement, Materials, and Safety, Job Planning, * Benchwork and Layout; other certifications, optional for qualified students | Community College of Baltimore County  Pennsylvania College of Technology | 17  TBD |
| Welding Technologies | American Welding Society (AWS) certification  National Registry (National Center for Construction Education and Research (NCCER))   * NCCT© Academic Core v2 * OSHA-10 Certified | Fredrick Community College  Pennsylvania College of Technology | 13  TBD |
| **Transportation Technologies** | Automobile Service Technology | The National Institute for Automobile Service Excellence (ASE©)   * Brakes * Maintenance & Light Repair * Electrical/ Elec. Systems * Engine Performance * Suspension/Steering | Community College of Baltimore Co.  Montgomery Community College  Pennsylvania College of Technology  Universal Technical Institute  University of Northwestern Ohio | 5  7  Up to 15  Up to 4  Up to 12 |
| Collision Repair Technology | The National Institute for Automobile Service Excellence (ASE©)   * Non-Structural Analysis & Damage Repair * Painting & Refinishing * Structural Analysis & Damage Repair | Pennsylvania College of Technology | Up to 18 |
| Heavy Equipment & Truck Technology | The National Institute for Automobile Service Excellence (ASE©)   * Brakes * Diesel Engines & Light Repair * Electrical/ Electronic. Systems | Pennsylvania College of Technology  Universal Technical Institute  University of Northwestern Ohio | Up to 6  Up to 4  Up to 12 |

***Mission of Career and Technology Education in Carroll County Public Schools***

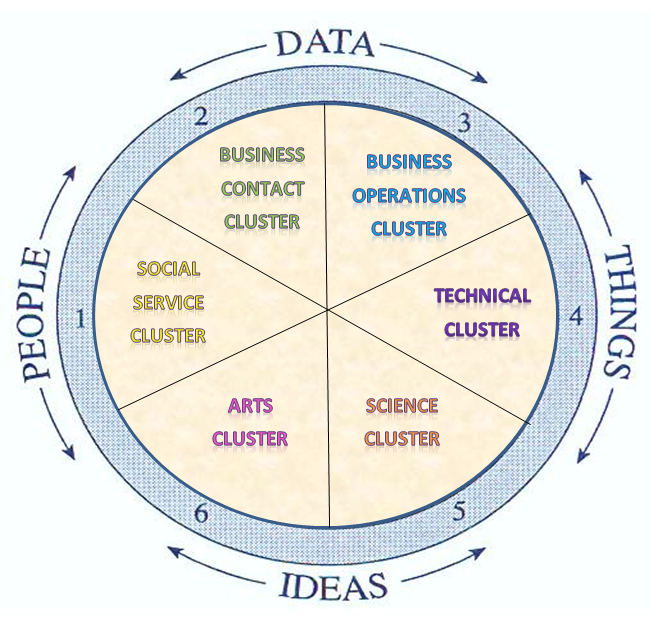
*The mission for the system of career and technology education for Carroll County is to prepare learners to begin careers and pursue lifelong learning through a process of career development, academic instruction, specific technical skills development, and work experience in order to meet the workforce preparation and economic development needs of Carroll County the region, and the global economy.*

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**Carroll County Public Schools**

**Career P****athways**



2019-2020

**Links below**

* [**Business Contact Cluster**](#BusinessContactCluster)
* [**Business Operations Cluster**](#BusinessOperationsCluster)
* [**Technical Cluster**](#techcluster)
* [**Science Cluster**](#ScienceCluster)
* [**Arts Cluster**](#ArtsCluster)
* [**Social ServiceS Cluster**](#SocialServicesCluster)

**What type of work is involved in the *Ar******ts* cluster?**

**Art Cluster**

* Individualized expression of creative or musical talent.
* Design, performing arts and fine arts.
* The application of artistic skills in the fields of photography, graphic arts, and design

**What are the *Arts* Pathways?**

* Applied Arts – Visual
* Creative and Performing Arts
* Applied Arts – Written and Spoken

**What should you think about when considering a career**

**in the *Arts* cluster?**

**Do You . . . .**

* like art, music, drama, and other creative interests?
* like to display your imagination through artistic, literary, musical or dramatic abilities?
* have a need for individualistic expression?
* value esthetics and artistic qualities?
* prefer free, unstructured situations or unconventional ideas?
* enjoy being creative, flexible, innovative or imaginative?
* prefer creative and expressive interaction with people?
* enjoy being an original thinker?
* value creative communication and expression of ideas, emotions or sentiments?

**If you answered YES to most of these questions,**

**a career in the *Arts* cluster may be for you!**

**For more details, read on…**

[Back to Career Clusters](#Clusters)

**Completers**

**COMPLETER:** [**Print Production**](#prprod) **CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| **Grade 🡪** | **9** | | **10** | | **11** | | **12** | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | | English 10 (1) | | AP Language and Composition (1) | | English 12 (1) | |
| US Government (1) | | US History (1) | | World History (1) | |  | |
| Conceptual Physics (1) | | Chemistry (1) | | Biology (1) | |  | |
| Algebra I (1) | | Geometry | | Algebra II (1) | | Higher Level Math (1) | |
| PE (.5) / Health (.5) | |  | | PE (.5) / Financial Literacy (.5) | |  | |
| Fine Arts (1) | | Foundations of Technology (1) | |  | |  | |
| World Language (1) | | World Language (1) | |  | |  | |
| **Completer Program**  **Requirements**  **(4 minimum credits)**  **(#choose 1 credit from these)** |  | |  | | #Graphic Communications (1), #Honors Commercial Art (1) | | Print Production (3) | |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Studio Art (1), AP Studio Art: 2 D Art (1)**  Art II: 2 & 3 D Art (.5-1), Journalistic Writing (.5), Psychology I or Honors Psychology I (1), Principles of Business Administration and Management (1), Drama I, II, III (.5-1.5), Technological Design (1), Honors Marketing (1), Newspaper Production (.5-1), Public Speaking (.5), Yearbook Production (.5-1), Internship (.5-1), Business Communication and Keyboarding (1) | | | | | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | 3 articulated credits | 4 articulated credits | | 4 articulated credits | | 4 articulated credits | | 4 articulated credits |
| Carroll Community College | Art Institute of Washington | | Montgomery College | | Bridgemont Community & Technical College | | Frederick Community College |
| Computer Graphics | Advertising or Graphic Design | | Desktop Publishing | | Digital Design & Print Communications | | Computer Graphics |
| **End of Program Test:**  **Industry:**  **Taken:** | Graphic Communications and Digital File Preparation/Digital File Output (Print Ed Certification) | | | | | | | |
| Graphic Arts Education and Research Foundation (GAREF) - PrintED | | | | | | | |
| During Print Production | | | | | | | |

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**COMPLETER:** [**Textiles and Fashion Careers**](#texfash) **CREDITS: 6**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | AP Language and Composition (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Option 1**  **Completer Program**  **Requirements** |  |  | Textiles & Fashion Careers I (3) | Textiles & Fashion Careers II (3) |
| **Option 2**  **Completer Program**  **Requirements**  **(# Choose 2 credits from these)** | #Needlecraft (.5-1) | #Principles of Fashion and Interior Design (1) |  | Textiles & Fashion Careers I (3) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Studio Art (1), AP World Language and Culture (1)**  Technological Design (1), Principles of Fashion and Interior Design (.5-1), Principles of Business Administration and Management (1),Honors Economics (.5), Honors Commercial Art (.5), Issues in American Society (.5), Honors Marketing (1), Needlecraft (.5-1), Art II: 2 & 3 D Art (.5-1), Psychology I or Honors Psychology I (1), Public Speaking (.5), Internship (.5-1), Graphic Communications (1) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | 3 credits  Stevenson University  Fashion Design | | | |

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**COMPLETER:** [**Video Production**](#vidprod) **CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | AP Language and Composition (1) | AP Literature and Composition (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements**  (4 minimum credits)  (# choose 1 credit from these) |  |  | # Graphic Communications (1)  #Honors Commercial Art (1)  #Script Writing & Video Production (1) | Video Production (3) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Studio Art (1)**  Art II: 2 & 3 D Art (.5-1), Journalistic Writing (.5), Psychology I or Honors Psychology I (1), Principles of Business Administration and Management (1), Drama I, II, II (.5-1.5), Technological Design (1), Honors Marketing (1), Public Speaking (.5), Internship (.5-1) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | 4 articulated credits  Art Institute of Washington  Digital Media Production | | | |

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**MAJORS**

**CAREER MAJOR:** [**Dance**](#dance2)  **CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits with 2 credits in Dance) |  | Dance I (.5)  Dance II (.5/1)  Personal Fitness (.5)  Music History & Literature (.5)  Honors Child & Adolescent Development (1) | Dance III (.5/1)  Barbell & Cross training (.5)  Psych. I or Honors  Psychology 1 (1)  Principles of Business Administration and Management (1) | Applied Dance (.5/1)  Honors Humanities (.5)  Issues in American Society (.5)  Public Speaking (.5) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Drama I (.5), AP Psychology (1), Exploring Music (.5), Music Elective (.5-1), Script Writing & Video Production (1), American Sign Language (.5), Honors Marketing (1), Movement for Athletes (.5), Technical Theater I (.5), Internship (.5-1), Weight Training (.5). French I (1) | | | |
| 8 credits possible per year |

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**CAREER MAJOR: Drama** **CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits)  \*required |  | Technical Theatre I (.5)  Drama II (.5) \*  Creative Writing (.5)  Public Speaking (.5)  Principles of Fashion & Interior Design (.5)  Honors Film & Literature (.5) | Speech & Debate (5)  Drama III (.5) \*  Psych. I or Honors Psychology I (1)  Honors Marketing (1)  Honors Theater Production & Analysis (1) | Ancient & Medieval History (.5)  Honors Humanities (.5)  Shakespeare (.5)  Script Writing & Video Production (1)  or Graphic Communications (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Advanced Design Applications (1), Technological Design (1), Drama I (.5), AP Psychology (1), Applied Dance (.5-1), Dance I (.5-1), Music Elective (.5-1), Internship (.5-1), Principles of Business Administration and Management (1) | | | |
| 8 credits possible per year |

**CAREER MAJOR: Graphic Communications** **CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits)  \*required |  | Graphic Communications (1)\* | 2 & 3 D Art (.5-1)  Technological Design (1)  Journalistic Writing (.5)  Script Writing & Video Production (1) | Honors Digital Design in Photography (1)  Honors Commercial Art (1)  Yearbook Production (1)  Psychology I or Honors Psychology (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | AP Psychology (1), Principles of Business Administration and Management (1), Business Communication & Keyboarding (1), Honors Studio Art (.5-1), Honors Marketing (1), Newspaper Production (.5-1), Sociology (.5), Internship (.5-1) Applied Art (.5-1) | | | |
| 8 credits possible per year |
| **Related Completers:** | Print Production, Video Production, Drafting | | | |

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**CAREER MAJOR: Humanities and Classical Studies CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits) |  | Mystery & Detective (.5) Mythology (.5)  Honors 20th Century Novel (.5) | AP Lang (1)  Pop Culture & Composition (.5)  Honors Latin III (1)  Music History & Literature (.5-1) | Ancient & Medieval History (.5)  AP Lit (1)  Honors Humanities (.5)  AP Latin Vergil (1)  Shakespeare (.5) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Latin I (1), Business Communications & Keyboarding (1), Art I (.5-1), Drama I, II, III (.5-1.5), Internship (.5-1) | | | |
| 8 credits possible per year |

**CAREER MAJOR: Industrial and Product Design** **CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits)  Required \* |  | Graphic Communications (1)  Principles of Fashion & Interior Design (.5-1) | Advanced Design Applications (1)\*  Technological Issues & Impacts (1)  Honors Marketing (1) | Technological Design (1)  Art II: 2 & 3 D Art (.5-1)  Honors Digital Design in Photography (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Business Communications & Keyboarding (1), AP Physics (1), Science Research I or Honors Science Research I (1), Internship (.5-1) | | | |
| 8 credits possible per year |
| **Related Completers:** | Drafting, Engineering, Applied Mechanical Engineering | | | |

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**CAREER MAJOR: Music CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits) |  | Instrumental OR Choral Elective (1-4)  Music History & Literature (.5-1) | Honors Marketing (1) or Graphics Communications (1)  Chorus, Honors Chorus (.5-1)  Band (1)  Ensemble (.5-1)  Stage Band, Honors Jazz Ensemble (1) | Honors Music History & Literature (1)  Honors Music Theory, AP Music Theory (.5-1)  Vocal Ensemble, Hon. Vocal Ensemble (.5-1)  Orchestra, Honors Orchestra (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Band Front (.5), Dance I (.5-1), Drama I, II, III (.5 ea.), Exploring Music (1), Script Writing & Video Production (1), Shakespeare (.5), Electronic Music (.5-1), Dance I ( .5-1), Dance II (.5-1), Applied Dance (.5-1), Internship (.5-1), Public Speaking (.5), Principles of Fashion & Interior Design (.5-1) | | | |
| **8 credits possible per year** |

**CAREER MAJOR: Visual Fine Arts**  **CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits) |  | Art II: 2 & 3 D Art (.5-1)  Graphic Communications (1)  Principles of Fashion & Interior Design (.5-1)  Script Writing & Video Production (1) | Principles of Business Administration and Management (1)  Honors Commercial Art (1)  Psychology I or Honors Psychology I (1)  Honors Digital Design in Photography (1) | Applied Art (.5-1)  Honors Studio Art, AP Studio Art (.5-1)  Honors Humanities (.5) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | AP Psychology (1), Flower Design(.5-1), Honors Ceramics (.5-1), Honors Drawing I (.5), Honors Mixed Media (.5-1), Honors Painting (.5), Needlecraft (.5-1), Advanced Design Applications (1), Technological Design (1), Internship (.5-1) | | | |
| 8 credits possible per year |
| **Related Completers:** | Print Production, Video Production | | | |

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**Business Contact Cluster**

**What type of work is involved in the *Business*** ***Contact***

**cluster?**

* Initiating and carrying out sales campaigns.
* Using mathematical concepts to design financial and economic systems.
* Dealing with all kinds of people from civic leaders to the general public.

**What are *Business Contact* Pathways?**

* Honors Marketing and Sales
* Management and Planning

**What should you think about when considering a career**

**in the *Business Contact* cluster?**

**Do You . . . .**

* like working with facts, numbers, and data?
* like contact with all kinds of people?
* speak and write clearly and accurately?
* work independently?
* like making decisions?
* like initiating and carrying out projects?
* care about people, their needs and welfare?

**If you answered YES to most of these questions, a**

**career in the *Business Contact* cluster may be for you!**

**For more details, read on…**

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**Completers**

**COMPLETER:** [**Marketing**](#bused)  **CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
|  | Managing Personal Finance Using Excel (1) |  |  |
| **Completer Program**  **Requirements** |  | Principles of Business Administration and Management (1) | Honors Accounting I (1)  Honors Marketing (1) | Advanced Marketing (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Business Communications & Keyboarding (1), AP Statistics (1), Honors Accounting I (1), Accounting II (1), Business Law (1), Graphic Communications (1), AP Human Geography (1), Issues in American Society (.5), Political Science (.5), Public Speaking (.5), Sociology (.5), World Geography (.5), Technological Issues & Impacts (1), Internship (.5-1), Speech & Debate(.5) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | 9 credits  Community College of Baltimore County, Catonsville  Business Management – Honors Marketing | | | |
| **End of Program Test:**  **Industry:**  **Taken:** | Principles of Honors Marketing  College Board – CLEP  End of Advanced Marketing | | | |

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**MAJORS**

**CAREER MAJOR: Advertising CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits)  Required \*, plus at least 1 listed business course |  | Graphic Communications  (1)\*  Principles of Business Administration & Management (1) | Honors Marketing (1)  Honors Commercial Art (1)  Public Speaking (.5)  Creative Writing (.5) | Psychology I or Honors Psychology I (1)  Script Writing & Video Production (1)  Sociology (.5)  (1)  Honors Economics (.5) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Art II: 2 & 3 D Art (.5), AP Language & Composition (1), Business Law (1), Journalistic Writing (.5), Newspaper Production (.5-1), Managing Personal Finances Using Excel (1), Internship (.5-1) | | | |
| 8 credits possible per year |
| **Related Completers:** | Marketing, Print Production, Video Production | | | |

**CAREER MAJOR: Hospitality and Tourism CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits) |  | Principles of Business Administration and Management (1)  Honors Humanities (.5) | Honors World Language III (1)  Advanced Foods (.5)  Honors Marketing (1)  Honors Economics  (.5)  AP Human Geography (1) | World Geography (.5)  Sociology (.5)  Psychology I OR Honors Psychology I (1)  Public Speaking (.5) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Honors Accounting I (1), Honors Marketing (1), AP Psychology (1), Creative Writing (.5), Honors or AP World Language IV (1), Managing Personal Finances Using Excel (1), Internship (.5-1), AP Macroeconomics (1), AP Human Geography (1), Pop Culture & Composition (.5), AP Environmental Studies (1), Graphic Communications (1), Drama (.5) | | | |
| 8 credits possible per year |
| **Related Completers:** | Culinary Arts, Business Administration & Management. Prostart | | | |

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**CAREER MAJOR: International Business CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits)  \*required |  | Public Speaking (.5)  Principles of Business Administration and Management (1)\* | Honors World Language III (1)  Honors Accounting I (1)  Business Law (1)  Sociology (.5)  Psychology I or Honors Psychology I (1)  Honors Economics (.5)\*  Honors Law Citizenship & Society (.5) | Honors or AP World Language IV (1)  World Geography (.5)  Honors Marketing (1)  AP Macroeconomics (1)  (2)  AP Language and Composition (1)  AP Literature and Composition (1)  Honors International Studies (.5) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Business Communications & Keyboarding (1), Accounting II (1), AP Psychology (1), AP Statistics (1), Issues in American Society (.5), AP Human Geography (1), Internship (.5-1) | | | |
| 8 credits possible per year |

**CAREER MAJOR: Mass CommunicationsCREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits) |  | Drama I (.5)  Honors Film & Literature (.5)  Graphic Communications (1) | Journalistic Writing (.5)  Drama II (.5)  Public Speaking (.5)  Creative Writing (.5)  Script Writing & Video Production (1)  Honors World Language III (1)  Newspaper Production (.5)  Honors Marketing (1) | Psychology I or Honors Psychology I(1)  Business Law (1)  Honors or AP World Language IV (1)  AP Language and Composition (1)  AP Literature and Composition (1)  Political Science (.5) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Popular Culture and Composition (.5), Honors Film and Literature (.5), Business Communications & Keyboarding (1), AP Psychology (1), Principles of Business Administration and Management (1), Economics (.5), AP Human Geography (1), Music Elective (.5-1), Sociology (.5), Speech & Debate (.5), Internship (.5-1), Honors Digital Design in Photography .5-1) | | | |
| 8 credits possible per year |
| **Related Completers:** | Print Production, Video Production | | | |

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**CAREER MAJOR: Public RelationsCREDITS:**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits)  Required \* |  | Graphic Communications (1)  Business Communications & Keyboarding (1)  Principles of Business Administration & Management (1) | Public Speaking (.5)  Honors Marketing (1)  Business Law (1)  Honors World Language III (1)  Psychology I (1) or Honors Psychology (1)\*  Journalistic Writing (.5) | Honors Economics (.5)  Sociology (.5)  Creative Writing (.5)  Honors or AP World Language IV (1)  AP Language and Composition (1)  AP Literature and Composition (1)  Popular Culture Language and Composition (.5) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Honors Commercial Art (1), AP Statistics (1), AP Psychology (1), AP Human Geography (1), Managing Personal Finances Using Excel (1), Internship (.5-1), Art II:2 & 3 D Art (.5-1). AP Macroeconomics (1) | | | |
| 8 credits possible per year |
| **Related Completers:** | Marketing, Print Production | | | |

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**Business Operations Cluster**

**What type of work is involved in the *Busines******s Operations***

**cluster?**

* Recording, posting, and filing of business records.
* Organization, accuracy, neatness, and attention to detail.
* Office work and contact with customers.
* Application of math and business concepts.

**What are *Business Operations* Pathways?**

* Records and Communication
* Financial Transactions
* Storage and Dispatching
* Business Machine and Computer Operation

**What should you think about when considering**

**a career in the *Business Operations* cluster?**

**Do You . . .**

* prefer well-ordered environments?
* like systematic verbal and numerical activities?
* enjoy working with tools, machines, and equipment?
* like a predictable work setting?
* prefer to work along?
* perform work tasks to meet standards of accuracy?
* enjoy using math skills?
* like well-defined tasks?

**If you answered YES to most of these questions,**

**a career in *Business Operations* cluster may be for you!**

**For more details, read on…**

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**Completers**

**COMPLETER:** [**Accounting**](#bused)  **CREDITS: 4**

**COMPLETERS**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

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| --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) |  |
|  | Managing Personal Finance Using Excel (1) |  |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements** |  | Principles of Business Administration and Management (1) | Honors Accounting I (1)  Accounting II (1) | Honors Business Education Capstone (1) or Career Related Internship or Dual Enrollment – (see crosswalk) or AP Macroeconomics |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Business Communications & Keyboarding (1), AP Macroeconomics (1), Business Law (1), Honors Economics (.5), Honors Calculus (1), AP Calculus AB (1), AP Calculus BC (1), | | | |
| 8 credits possible per year |
| **Value Added:**  **From”**  **Program:** | 3 Transcripted Credits  Carroll Community College  Accounting | | | |
| **End of Program Test:**  **Industry:**  **Taken:** | Accounting 101 Final Exam  Carroll Community College  At the end of Accounting II | | | |

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**COMPLETER:** [**Business Administration and Management**](#bused) **CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

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| --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) |  |
|  | Managing Personal Finance Using Excel (1) |  |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements** |  | Principles of Business Administration and Management (1) | Honors Accounting I (1)  Advanced Business Management (1) | Honors Business Education Capstone (1) or Career Related Internship or Dual Enrollment (see crosswalk) or AP Macroeconomics |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Recommended: Business Communications & Keyboarding (1)  AP Statistics (1), Accounting II (1), AP Psychology (1), Business Law (1), Honors Calculus, AP Calculus AB, AP Calculus BC (1), Issues in American Society (.5), Psychology I or Honors Psychology I (1), Sociology (.5) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | 3 Articulated credits  Community College of Baltimore County, Catonsville, Essex or Dundalk  Business Management | | | |
| **End of Program Test:**  **Industry:**  **Taken:** | CLEP Principles of Management Exam  College Board - CLEP  At the end of Advanced Business Management | | | |

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**COMPLETER:**[**Computer Science**](#careerpathways)**- Project Lead the Way Endorsement CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | AP Language and Composition (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology or Exploring Computer Science (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements** |  |  | Computer Science Essentials (1)  PLTW AP Computer Science Principles (1) | PLTW Cybersecurity (1)  PLTW AP Computer Science A (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Calculus AB (1), AP Statistics (1)**  Graphic Communications (1), Script Writing and Video Production (1), Business Communications & Keyboarding (1), Managing Personal Finances Using Excel (1), Math Elective Beyond Alg. II (.5-1), Honors Accounting I (1), Accounting II (1), Business Law (1), Principles of Business Administration and Management (1), Internship (.5-1) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | Up to 12 Articulated credits  Carroll Community College  Computer Information Systems | 10 Articulated credits  Community College of Baltimore County, Catonsville, Essex, or Dundalk  Information Technology | | |
| **End of Program Test:**  **Industry:**  **Taken:** | Advanced Placement Computer Science A Exam  College Board  Spring after AP Computer Science II | | | |

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C**OMPLETER**[**: Financial Services**](#finserv) **- National Academy Foundation Endorsement**

**CREDITS: 5-7**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) |  |
|  | Managing Personal Finance Using Excel (1) (Recommended) |  |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements** |  |  | Honors Accounting I (1)  Honors Finance Academy I (1)  Accounting II at WHS (1) | Honors Finance Academy II (1)  Honors Academy of Finance Internship (1-2) |
| **Additional Requirements for NAF Endorsement (7 credits)** | Freshman Seminar (.5) (Strongly encouraged by NAF) |  |  | Dual Enrollment in finance course (.5)  Additional Internship- paid (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Recommended AP Connections: AP Macroeconomics  Business Communications & Keyboarding (1), Principles of Business Administration and Management (1), Business Law (1), Honors Economics (.5), Office Systems Management (1) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | 3 Transcripted credits via Financial Services completer; 6 total transcripted credits via Academy of Finance  Carroll Community College  Accounting | | | |

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**MAJORS**

**CAREER MAJOR: Actuarial Science CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits)  \*requires at least 1 credit of a statistics course |  | Managing Personal Finances Using Excel (1) | Probability & Stat (.5/1)\*or  Honors Marketing (1)  Honors Accounting I (1)  Honors Economics (.5) | Business Law (1)  AP Stats. (1)\*  Math Elective beyond Alg. II (.5-1)  AP Macroeconomics (1)  AP Human Geography (1)  Integrated Algebra & Statistics (1)\* |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Principles of Business Administration and Management (1), Accounting II (1), Trig & Pre-Calc. or Hon. Trig & Pre-Calc (1), Psychology I or Honors Psychology I (1), Sociology (.5), Internship (.5-1), | | | |
| 8 credits possible per year |
| **Related Completers:** | Accounting | | | |

**CAREER MAJOR: Human Resources Management CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits)  \*required |  | Public Speaking (.5)  Principles of Business Administration and Management (1)\* | Honors Marketing (1)  Honors Accounting I (1)  Psychology I or Honors Psychology I (1)\*  Business Law (1) | Issues in American Society (.5)  AP Statistics (1)  Sociology (.5)  AP Psychology (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Business Communications & Keyboarding (1), Honors Economics (.5), Managing Personal Finances Using Excel (1), Internship (.5-1), AP Human Geography (1), Honors Law, Citizenship & Society (.5) | | | |
| 8 credits possible per year |

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**Science Cluster**

**What type of work is involved in the *Scie******nce* cluster?**

* Planning and conducting research.
* Collecting and applying systematic accumulation of knowledge in related branches of mathematics, life, physical and social science.
* Observing and classifying facts in laboratory research.
* Applying information in the fields of mathematics, medicine, life, physical and

social sciences.

* Studying the environment, world cultures, and people.

**What are *Science* Pathways?**

* Engineering & Other Applied Technologies
* Medical Specialties and Technologies
* Natural Sciences and Mathematics
* Social Sciences

**What should you think about when considering a**

**career in the *Science* cluster?**

**Do You . . .**

* have an aptitude in science, math, or social studies?
* have a curiosity about how things work?
* have the ability to gather and analyze data to solve problems?
* have an aptitude in working with computers?
* have a desire to help people resolve medical and health related concerns?
* have a concern for physical and mental fitness?
* have an interest in politics, history, economics, or geography?

**If you answered YES to most of these questions,**

**a career in the *Science* cluster may before you!**

**For more details, read on…**

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**Completers**

**COMPLETER**[**: Academy of Health Professions**](#sciencecluster)**CREDITS: 4 to 5**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | AP Language and Composition (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) | Chemistry II (1) |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| Grade 🡪 | 9 | 10 | 11 | 12 |
| **Option 1**  **Certified Nursing Assistant**  **(C.N.A.)**  **Completer Program Requirements**  **4 credits** |  |  |  | Foundations of Medicine and Health Science (1)  Structure and Functions of the Human Body (1)  CNA – Theory and Clinical (1)  Honors Academy of Health Professions Internship (1-3)  OR  Dual Enrollment (1) |
| **Option 2**  **Physical Rehabilitation**   * **Physical Therapy** * **Occupational Therapy** * **Speech Pathology** * **Athletic Training** * **Sports Medicine**   **Completer Program Requirements**  **5 credits** |  |  |  | Foundations of Medicine and Health Science (1)  Structure and Functions of the Human Body (1)  Physical Rehabilitation: Theory and Clinical (2)  Honors Academy of Health Professions Internship (1-3)  OR  Dual Enrollment (1) |
| **Option 3**  **Medical Specialty (at Carroll County Career & Tech Center)**   * **Surgical Technology** * **Certified Clinical Medical Assistant**   **Completer Program Requirements**  **5 credits** |  |  |  | Foundations of Medicine and Health Science (1)  Structure and Functions of the Human Body (1)  CNA – Theory and Clinical (1)  Specialized Medical Option\* (1)  Honors Academy of Health Professions Internship (1-3) |

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| **Option 4**  **Medical Specialty (at Carroll Community College – fees apply)**   * **Pharmacy Technician** * **Dental Assistant & Oral Radiography** * **Medical Records**   **Completer Program Requirements**  **4 credits** |  |  |  | Foundations of Medicine and Health Science (1)  Structure and Functions of the Human Body (1)  Specialized Medical Option\* (1)  Honors Academy of Health Professionals Internship (1-3)  OR  Dual Enrollment-Allied Health prerequisite (Pharmacy Tech. only) (1) |
| **Option 5**  **Allied Health Internship**  **Completer Program Requirements**  **4 credits** |  |  |  | Foundations of Medicine and Health Science (1)  Structure and Functions of the Human Body (1)  Honors Academy of Health Professions Internship (2) |
| **Option 5**  **Allied Health Dual Enrollment**  **Completer Program Requirements**  **4 credits** |  |  |  | Foundations of Medicine and Health Science (1)  Structure and Functions of the Human Body (1)  Honors Academy of Health Professions Internship (1)  Approved Allied Health  Prerequisite college course\*  (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Biology (1), AP Chemistry (1)**  Technological Issues and Impacts (1), Business Communications and Keyboarding (1), Health II (.5), Human Anatomy & Physiology or Honors Human Anatomy & Physiology (1), Math Elective beyond Alg. II (.5-1), (1), AP Psychology (1), Psychology I or Honors Psychology I (1), Public Speaking (.5), Sociology (.5), Internship 3 (.5-2) | | | |
| 8 credits possible per year |
| **Value Added:** | Receives required C.N.A. Certification hours | | | |
| **End of Program Test:**  **Industry:**  **Taken:** | Certified Nursing Assistant Exam / Geriatric Nursing Assistant Exam -or- Determined by coursework  Maryland Board of Nursing -or- Carroll Community College  During CNA – Theory and Clinical -or- During Specialized Medical Option | | | |
| \*Offered at Carroll Community College | | | | |

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**COMPLETER:** [**Biomedical Sciences**](#SCIENCE) **– Project Lead the Way EndorsementCREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

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| --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | AP Language and Composition (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) | Chemistry II (1) |
| Algebra I(1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements** |  |  | Principles of Biomedical Sciences (1)  Human Body Systems (1) | Medical Interventions (1)  Biomedical Innovation (1) |
| **Program Specific Requirements** | A college preparatory math and science course is required each year of high school. See chart above. | | | |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Biology (1), AP Chemistry (1)**  Human Anatomy & Physiology or Honor Human Anatomy & Physiology (1), Science Research I or Honors Science Research I (1), Technological Issues & Impacts (1), Health II (.5), Issues in American Society (.5), AP Human Geography (1), Probability & Statistics or AP Statistics (1) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:** | 4 Transcripted credits  Stevenson University | | | |
| **End of Program Test:**  **Industry:**  **Taken:** | To Be Determined  Project Lead the Way / Stevenson University  To Be Determined | | | |

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**COMPLETER:**  [**CASE Agricultural Sciencericultural Science -Animal – Animal**](#agriscience)**CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements**  **(4 minimum credits)** | Introduction to Agriculture, Food, and Natural Resources (1) | CASE – Animal (1) | CASE – Animal and Plant Biotechnology (1) | Agriculture Business Research and Development (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Recommended AP Connections: AP Environmental Studies (1), AP Biology (1)  AP Language & Composition (1), Honors World Language III (1), Science Research I or Honors Science Research I (1), World Geography (.5), AP Statistics (1), AP Environmental Studies (1), Aquatic Environmental Science (.5), Terrestrial Environmental Science (.5), Technological Issues & Impacts (1), Issues in American Society (.5), AP Government (1), AP Biology (1) Career Related Internship (.5-1) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | 3 transcripted credits | | | |
| University of Maryland | | | |
| Institute of Applied Agriculture (IAA) | | | |

**COMPLETER: CASE** [**Agricultural Science - Plant**](#agriscience) **CreDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

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| --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements**  **(4 minimum credits)** | Introduction to Agriculture, Food, and Natural Resources (1) | CASE Agricultural Science - Plant (1) | CASE Agricultural Science – Animal and Plant Biotechnology (1) | Agriculture Business Research and Development (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Recommended AP Connections: AP Environmental Studies (1), Career Related Internship (.5)  AP Language & Composition (1), Honors World Language III (1), Science Research I or Honors Science Research I (1), World Geography (.5), AP Statistics (1), AP Environmental Studies (1), Aquatic Environmental Science (.5), Terrestrial Environmental Science (.5), Technological Issues & Impacts (1), Issues in American Society (.5), AP Government (1) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | 3 transcripted credits | | | |
| University of Maryland | | | |
| Institute of Applied Agriculture (IAA) | | | |

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**COMPLETER:** [**Wildlife and Natural Resources**](#agriscience) **CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements** | Intro to Agriculture, Food & Natural Resources (1) | Agricultural Mechanical Technology (1) | Wildlife Management (.5) | Environmental Conservation (1)  Ag Coop/Internship (.5) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Recommended AP Connections: AP Environmental Studies (1), AP Biology (1)  Managing Personal Finances Using Excel (1), Math Elective Beyond Alg. II (.5-1), AP Biology (1), AP Stats. (1), Technological Issues & Impacts (1), Principles of Business Administration and Management (1), Aquatic Environmental Science and Terrestrial Environmental Science (.5), Issues in American Society (.5), Science Research I or Honors Science Research I (1) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | 2 Articulated credits  Allegany College of Maryland  Forest Technology | | | |

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**MAJORS**

**CAREER MAJOR: Economics CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits)  \*required |  | Principles of Business Administration and Management (1)  Managing Personal Finance Using Excel (1) | Honors Marketing (1)  Accounting I (1)  Issues In American Society (.5)  Sociology (.5)  Honors Economics (.5)\* | Business Law (1)  AP Statistics (1)  AP Macroeconomics (1)\*  AP Calculus A/B  AP Calculus B/C |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Accounting II (1), Honors International Studies (.5), AP Human Geography (1), Internship (.5-1) | | | |
| 8 credits possible per year |
| **Related Completers:** | Accounting | | | |

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**CAREER MAJOR: Environmental Health CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits) |  | Health II (.5)  Issues in American Society (.5)  Honors Introduction to Agriculture, Food and Natural Resources (1) | Aquatic Environmental Science (.5) and Terrestrial Environmental Science (.5)  Public Speaking (.5)  Sociology (.5) | Chemistry II or  Honors Chemistry II (1)  Business Law (1)  AP Environmental Studies (1)  Science Research I or Honors Science Research I (1)  Honors Science Research II (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | AP Biology (1), AP Chemistry (1), AP Psychology (1), Environmental Conservation (1), Psychology I or Honors Psychology I (1), Science Research II, Technological Issues & Impacts (1), World Geography (.5), Internship (.5-1), Human Anatomy & Physiology (1) | | | |
| 8 credits possible per year |
| **Related Completers:** | Academy of Health Professions, CASE Plant | | | |

**CAREER MAJOR: Food and Nutrition ScienceCREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
|  | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits)  \*required |  | Issues in American Society (.5)  Introduction to Agriculture, Food, & Natural Resources (1) | Adv. Foods (.5/1)\*  Food & Nutrition Science (.5)  Human Anatomy & Physiology or Honors Human Anatomy & Physiology (1)  Health II (5) | Chemistry II or  Honors Chemistry II (1) or AP Biology (1)  Science Research I or Honors Science Research I (1)  Honors Health III (.5) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Introduction to Foods (.5-1), AP Chemistry (1), AP Stat. (1), Psychology I or Honors Psychology I (1), Sociology (.5), Internship (.5-1), Conceptual Physics (1) | | | |
| 8 credits possible per year |
| **Related Completers:** | Culinary Arts, Food Service & Hospitality Management (ProStart) | | | |

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**CAREER MAJOR: History CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits) |  | Ancient & Medieval History (.5)  World Geography (.5)  Honors 20th Century Novel (.5) | AP Language & Composition (1)  American Revolution & the Civil War (.5)  Issues in American Society (.5)  Mythology (.5) | AP European History (1)  Shakespeare (.5)  International Studies (.5) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Honors Humanities (.5), Music History & Literature (.5-1), Sociology (.5), Honors Law, Citizenship & Society(.5), AP Human Geography (1), Internship (.5-1), Speech & Debate (.5) | | | |
| 8 credits possible per year |

**CAREER MAJOR: International StudiesCREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits) |  | Public Speaking (.5) | Honors World Language III (1)  Sociology (.5)  World Geography (.5)  Honors International Studies (.5)  Honors Economics (.5)  Speech & Debate (.5) | Honors or AP World Language IV (1)  AP Macroeconomics (1)  Psychology I or Honors Psychology I (1)  Political Science (.5)  AP Human Geography (.5) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Business Communications & Keyboarding (1), AP Statistics (1), AP European History (1), AP Language & Composition (1), AP Literature & Composition (1), AP Psychology (1), Issues in American Society (.5), Honors Marketing (1), Internship (.5-1) | | | |
| 8 credits possible per year |

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**CAREER MAJOR: Life Sciences CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits) |  | Wildlife Management (.5) | Aquatic Environmental Science (.5) Terrestrial Environmental Science (.5 )  Chemistry II or Honors Chemistry II (1)  Health II (.5)  Human Anatomy & Physiology or Honors Human Anatomy & Physiology (1)  Environmental Conservation (1)  AP Environmental Studies (1) | AP Chemistry (1)  Science Research I or Honors Science Research I (1)  AP Biology (1)  Math elective beyond Alg. II |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | AP Stat. (1), Honors Calculus (1), AP Calculus AB (1), Trig & Pre-Calc. or Honors Trig. & Pre-Calc (1), AP Physics (1), Internship (.5-1), Honors International Studies (.5) | | | |
| 8 credits possible per year |
| **Related Completers:** | Academy of Health Professions, Wildlife & Natural Resources, Biomedical Sciences, Case Animal, Case Plant | | | |

**CAREER MAJOR: Mathematics CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits) |  |  | AP Stats. (1)  Trig. & Pre-Calc. or Hon. Trig. & Pre-Calc. (1) | Honors Calculus (1)  AP Calculus AB (1)  AP Calculus BC (1)  Science Research I or Honors Science Research I (1)  AP Physics (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Honors Accounting 1 (1), Graphic Communications (1), Chemistry II or Honors Chemistry II (1), Advanced Design Applications (1), Technological Design (1), Managing Personal Finance Using Excel (1), Internship (.5) | | | |
| 8 credits possible per year |
| **Related Completers:** | Computer Science, PLTW Engineering, Accounting | | | |

**CAREER MAJOR: Physical ScienceCREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits) |  |  | Advanced Design Applications (1)  Chemistry II or Honors Chemistry II (1)  AP Chemistry (1)  AP Physics (1) | Technological Design (1)  Science Research I or Honors Science Research I (1)  Math elective beyond Alg. II (.5-1)  AP Physics C (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | AP Stat. (1), Honors Calculus (1), AP Calculus AB (1), AP Calculus BC (1), Trigonometry & Pre-Calculus or Honors Trigonometry & Pre-Calculus (1), World Geography (.5), Internship (.5-1) | | | |
| 8 credits possible per year |
| **Related Completers:** | Wildlife & Natural Resources, Geographic Information Systems Technology | | | |

**CAREER MAJOR: Social ScienceCREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits) |  | World Geography (.5)  Issues in American Society (.5)  Honors International Studies (.5) | Psychology I or Honors Psychology I (1)  Political Science (.5)  Sociology (.5)  Public Speaking (.5)  Honors Economics (.5)  Honors World Language III (1) | AP Human Geography (1)  AP Psychology (1)  AP Macroeconomics (1)  Speech & Debate (.5)  Honors Humanities (.5)  Honors Law, Citizenship & Society(.5) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Business Communications & Keyboarding (1), History Elective (.5-1), Honors Child & Adolescent Development (1), Technological Issues & Impacts (1), Music History & Literature (.5-1) Peer Facilitating (.5), Popular Culture and Composition(.5), AP Human Geography (1), Internship (.5-1) | | | |
| 8 credits possible per year |
| **Related Completers** | Criminal Justice | | | |

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**What type of work is involved in the *Social S******ervices* cluster?**

**Social Services Cluster**

* Includes positions of high responsibility in caring for the personal needs and welfare

of others in fields of social service, health, and education.

* Involves providing services to persons and catering to the tastes, desires, and welfare

of others in fields of personal service.

**What are *Social Services* Pathways?**

* General Health Care
* Education and Related Services
* Social and Government Services
* Personal/Customer Service

**What should you think about when considering**

**a career in the *Social Services* Cluster?**

**Do You . . . . .**

* get along with a wide variety of people?
* enjoy sharing ideas with others?
* enjoy helping others learn new things or acquire information?
* enjoy reading about or studying how society works and the interactions of individuals

or groups of people?

* enjoy providing service to other people?
* seeing to their comfort, or enhancing their appearance?

**If you answered YES to most of these questions,**

**a career in the *Social Services* cluster may**

**be for you!**

**For more details, read on…**

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**Completers**

**COMPLETER:** [**Cosmetology**](#cosmet)  **CREDITS: 9**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

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| --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | AP Language and Composition | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1)  Biology (1) |  |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements** |  |  | Principles & Practices of Cosmetology (3) | Adv. Cosmetology Theory & Application (3)  Mastery of Cosmetology (3) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Biology (1), AP Chemistry (1)**  Principles of Business Administration and Management (1), Public Speaking (.5), Honors Human Anatomy (1), Human Anatomy and Physiology (1) | | | |
| 8 credits possible per year |
| **Value Added:** | 1,000 hour letter/eligibility to participate in supervised work based experience in a salon setting | | | |
| **End of Program Test:**  **Industry:**  **Taken:** | State Board Cosmetology Exam  Maryland State Board of Cosmetology  At the end of Mastery of Cosmetology | | | |

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**COMPLETER:** [**Culinary Arts**](#culart) **CREDITS: 6**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 | |
| --- | --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | AP Language and Composition | English 12 (1) | |
| US Government (1) | US History (1) | World History (1) |  | |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  | |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) | |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  | |
| Fine Arts (1) | Foundations of Technology (1) |  |  | |
| French I (1) | French II (1) |  |  | |
| **Completer Program**  **Requirements** |  |  | Culinary Arts I: Culinary Basics (3) | Culinary Arts II: Professional Baking & Pastry (3) or Culinary Arts II: Professional Cooking (3) | |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Chemistry (1), AP World Language and Culture (1)**  Advanced Foods (1), Science Elective (.5-1), Honors Accounting I (1), Accounting II (1), Business Law (1), Principles of Business Administration and Management (1), Business Communications & Keyboarding (1), Honors Economics (.5), Food & Nutrition Science (1), Health II (.5), Human Anatomy & Physiology or Honors Human Anatomy & Physiology (1), Psychology I or Honors Psychology I (1), Sociology (.5), Internship (.5-1) | | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | Up to 10 Articulated Credits  Howard CC  Hospitality Management | American Culinary Federation (ACF) Certification | Up to 18 Articulated Credits  Stratford University  Culinary Arts | 3 Articulated Credits  Anne Arundel CC  Hotel, Culinary Arts & Tourism | 6 Articulated Credits  Frederick CC  Culinary Arts & Hospitality |
| **End of Program Test:**  **Industry:**  **Taken:** | ACF – Culinary Arts, Cook Level 2  American Culinary Federation  At the end of Culinary Arts II: Professional Cooking | | ACF – Retail Commercial Baking  American Culinary Federation  At the end of Culinary Arts II: Baking and Pastry | | |

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**COMPLETER:** [**Early Childhood Education**](#ece)**CREDITS: 5**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

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| Grade 🡪 | 9 | 10 | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | **AP** **Language and Composition** | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements** |  | Honors Child & Adolescent Development (1)  Child Development Laboratory (1) | Advanced Child Development Laboratory (1) | Honors Early Childhood Education Seminar & Internship (2) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Psychology (1), AP Statistics (1)**  Business Communications & Keyboarding (1), Psychology I or Honors Psychology I (1), Sociology (.5), Art Elective (1), Principles of Business Administration and Management (1), Drama I, II, III (.5-1.5), Health II (.5), Music Elective (.5), Peer Facilitating (.5), Public Speaking (.5), American Sign Language (.5) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | Receives required State certification hours | 6 Articulated credits  Carroll Community College  Early Childhood Education | 3-6 Articulated credits  Stevenson University  Elementary Education or Early Childhood | |
| **End of Program Test:**  **Industry:**  **Taken:** | Praxis 1 Exam  Educational Testing Service  At the end of Seminar & Internship | | | |

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**COMPLETER:** [**Education – Middle and High School / Teacher Academy of MD**](#TAM)

**CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | | 10 | | | 11 | | 12 | |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | | English 10 (1) | | | English 11 (1) | | English 12 (1) | |
| US Government (1) | | US History (1) | | | World History (1) | |  | |
| Conceptual Physics (1) | | Chemistry (1) | | | Biology (1) | |  | |
| Algebra I (1) | | Geometry (1) | | | Algebra II (1) | | Higher Level Math (1) | |
| PE (.5) / Health (.5) | |  | | | PE (.5) / Financial Literacy (.5) | |  | |
| Fine Arts (1) | | Foundations of Technology (1) | | |  | |  | |
| World Language (1) | | World Language (1) | | |  | |  | |
|  | |  | | | Additional coursework in teaching content area | |  | |
| **Completer Program**  **Requirements** |  | | Honors Child & Adolescent Development (1) | | | Honors Teaching as a Profession (1)  Foundations of Curriculum & Instruction (1) | | Education Academy Internship (1) | |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | * **Recommended AP Connections: AP Psychology (1), AP Literature and Language (1)**   Students should focus elective choices in the content area they aspire to teach. Business Communications and Keyboarding (1), Psychology I or Honors Psychology I (1), Peer Facilitating (.5), Public Speaking (.5), World Language (.5), American Sign Language I (1) Content Specific Coursework (1) | | | | | | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | 3 Articulated credits  Community College of Baltimore County  Teacher Education | 4 Articulated credits  Carroll Community College  Teacher Education Program | | 3 Articulated credits  Stevenson University  Teacher Education | 3 Transcripted credits  Towson University  Teacher Education | | 3 Articulated credits  Frederick CC  Education | | 3 Articulated credits  Coppin State University  Teacher Education |
| **End of Program Test:**  **Industry:**  **Taken:** | Praxis 1 Exam  Educational Testing Service  Foundations of Curriculum & Instruction | | | | | | | | |

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**COMPLETER**[**: Food Service and Hospitality Management**](#foodserv) **(ProStart)CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements** |  | *Prerequisite:*  *Introduction to Foods (1)* | Principles of Business Administration and Management (1)  Food Service Professional (1) | Food Service Professional II (1)  Internship (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | * **Recommended AP Connections: AP Chemistry (1)**   French I (1), French II (1), Science Elective (.5-1),Honors Accounting I (1), Accounting II (1), Business Law (1), Principles of Business Administration and Management (1), Business Communications & Keyboarding (1), Honors Economics (.5), Health II (.5), Human Anatomy & Physiology or Honors Human Anatomy & Physiology (1), Psychology I or Honors Psychology I (1), Sociology (.5) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | ProStart Affiliated Colleges | 6-7 articulated credits  Paul Smith’s College  Culinary Arts and Service Management | | |
| **End of Program Test:**  **Industry:**  **Taken:** | ProStart and ServSafe Exams  ProStart and ServSafe  At the end of Food Service Professional I and II | | | |

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**COMPLETER:** [**Homeland Security and Emergency Preparedness**](#homsec)**-**

**Criminal Justice/Law Enforcement CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

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| --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | AP Language and Composition | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements**  **(4 minimum credits)** |  |  | Foundations of Homeland Security and Emergency Preparedness (1)  Administration of Justice I (1) | Administration of Justice II (1)  Homeland Security and Emergency Preparedness Internship/Capstone (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Biology (1), AP Psychology (1), AP Government (1)**  Business Communications & Keyboarding (1), AP Language & Composition (1), Honors World Language III (1), Peer Facilitating (.5), Science Research I or Honors Science Research I (1), World Geography (.5), Internship (.5-1) Issues in American Society (.5), Public Speaking (.5), Sociology (.5), World Geography (.5), Political Science (.5), Psychology I or Honors Psychology I (1), Honors Economics (.5), Speech and Debate (.5),AP Macroeconomics (1), AP Stat. (1), Business Law (1), AP Human Geography (1), Honors Law, Citizenship & Society(.5), Honors International Studies (.5) | | | |
| **Value Added:**  **From:**  **Program:** | 3 articulated credit | 3 articulated credits | | |
| University of  Baltimore | University of Maryland University College | | |
| Criminal Justice | Homeland Security or Emergency Management | | |

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**COMPLETER:** [**Homeland Security and Emergency Preparedness**](#homsec)**-**

**Geographic Information Systems and Technology CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

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| --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | AP Language and Composition | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program Requirements**  **(4 minimum credits)** |  |  | Foundations of Homeland Security and Emergency Preparedness (1)  S.T.A.R.S. Course 1 and 2 (1) | S.T.A.R.S. Course 3 and 4 (1)  Homeland Security and Emergency Preparedness Capstone (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Psychology (1), AP Human Geography (1)**  Business Communications & Keyboarding (1), World Language III (1), Peer Facilitating (.5), Science Research I or Honors Science Research I (1), World Geography (.5), Internship (.5-1) Issues in American Society (.5), Public Speaking (.5), Sociology (.5), World Geography (.5), Political Science (.5), Psychology I or Honors Psychology I (1), Honors Economics (.5), AP Government (1), Speech and Debate (.5),AP Macroeconomics (1), AP Stat. (1), Business Law (1), AP Human Geography (1), Honors Law, Citizenship & Society(.5) | | | |
| **8 credits possible per year** |
| **End of Program Test:**  **Industry:**  **Taken**: | S.T.A.R.S. Entry-Level Technician Exam | | | |
| GIS ( Geographic Information Systems) | | | |
| At the end of Homeland Security and Emergency Preparedness Capstone | | | |
| **Value Added:**  **From:**  **Program:** | Certification(s)  Geospatial Center of Excellence | | | |
| NASA Stennis Space Center | | | |
| GIS/RS Certification | | | |

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**MAJORS**

**CAREER MAJOR: Family and Consumer StudiesCREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits) with 2 credits required in Family & Consumer Sciences |  | Honors Child & Adolescent Development (1)  Child Development Laboratory (1)  Principles of Fashion & Interior Designs (.5-1) | Adv. Foods (.5-1)  Food & Nutrition Science (1)  Honors Economics (.5) | Sociology (.5)  Psychology I or Honors Psychology I (1)  AP Macroeconomics (1)  Issues in American Society (.5) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Chemistry II or Honors Chemistry II (1), Adv. Child Dev. Laboratory (1), Art Elective (1), Flower Design (.5-1), Health II (.5), Advanced Design Applications (1), Technological Design (1), Issues in American Society (.5), Journalistic Writing (.5), AP Human Geography (1), Honors Marketing (1), Music Elective (.5-1), Needlecraft (.5-1), Public Speaking (.5), Internship (.5-2), AP Psychology (1) | | | |
| 8 credits possible per year |
| **Related Completers:** | Early Childhood Education, Culinary Arts, Textiles & Fashion Careers, Food Service & Hospitality Management (ProStart) | | | |

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**CAREER MAJOR: Law and Legal ServicesCREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits) |  | Issues in American Society (.5)  Advanced Software Applications (1) | Public Speaking (.5)  Sociology (.5)  Honors Law, Citizenship & Society (.5)  Political Science (.5)  Psychology I or Honors Psychology I (1)  Honors Economics (.5) | Speech and Debate (.5)  AP Macroeconomics (1)  AP Psychology (1)  AP Stat. (1)  Business Law (1)  AP Language & Composition (1)  AP US Government & Politics (1)  Leadership Education & Training VIII (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Business Communications & Keyboarding (1), Honors World Language III (1), Peer Facilitating (.5), Science Research I or Honors Science Research I (1), World Geography (.5), AP Human Geography (1) , Internship (.5-1), AP Literature & Composition (1) | | | |
| 8 credits possible per year |
| **Related Completers** | Criminal Justice | | | |

**CAREER MAJOR: Library and Information Sciences CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits) |  | Honors Child & Adolescent Development (1)  Business Communications & Keyboarding (1)  Managing Personal Finances Using Excel (1)  Music History & Literature (.5) | Issues in American Society (.5)  Script Writing & Video Production (1)  Public Speaking (.5)  Honors Film & Literature (.5) | AP Literature & Composition (1)  Newspaper Production (.5-1)  Honors Humanities (.5)  Honors Twentieth Century Novel (.5)  Media Assistant (.5-1)  Pop Culture & Composition (.5) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Drama I, II, III (.5 ea.), Psychology I or Honors Psychology I (1) ,Internship (.5-1) , Journalistic Writing (.5),Mythology (.5), Shakespeare (.5)  Graphic Communications (1) | | | |
| 8 credits possible per year |

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**CAREER MAJOR: Social Work CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits) |  | Honors Child & Adolescent Development (1) | Psychology I or Honors Psychology I (1)  Political Science (.5)  Sociology (.5)  Public Speaking (.5)  Honors World Language III (1)  Honors Law, Citizenship & Society (.5) | AP Psychology (1)  Peer Facilitating (.5)  Issues in American Society (.5)  Honors or AP World Language IV (1) Health III (.5)  Leadership Education & Training VI (1) |
| **Career Specific Electives**  (may be taken any year offered after perquisites have been satisfied) | AP Statistics (1), Child Development Laboratory (1), Advanced Child Development Laboratory (1), AP Language & Composition (1),Honors Economics (.5), Health II (.5), American Sign Language (.5), World Geography (.5), AP Human Geography (1), Internship (.5-1 | | | |
| 8 credits possible per year |

**CAREER MAJOR: Sports and RecreationCREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits)  Required \* |  | Honors Child & Adolescent Development (1) | Health II (.5)  Human Anatomy & Physiology or Honors Human Anatomy & Physiology (1)\*  Personal Fitness (.5)  Psychology I or Honors Psychology I (1)  Weight Training (.5) | Honors Health III (.5)  AP Biology (1 ea.)  Sociology (.5)  Individual/Dual Sports (.5)  Team Sports (.5) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | AP Statistics (1), Applied Dance (.5-1), Principles of Business Administration and Management (1), Dance I (.5-1), Gymnastics & Tumbling (.5), Honors Marketing (1), Public Speaking (.5), World Geography (.5), AP Human Geography (1), Internship (.5-1) | | | |
| 8 credits possible per year |
| **Related Completers** | Academy of Health Professions | | | |

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**CAREER MAJOR: Urban and Regional PlanningCREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule | English 9 (1) | English 10 (1) | English 11 (1) | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| World Language (1) | World Language (1) |  |  |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| **Career Major**  (4 minimum credits) |  | Issues in American Society (.5) | Technological Design (1)  Advanced Design Applications (1)  Aquatic Environmental Science and Terrestrial Environmental Science (1)  Public Speaking (.5)  Sociology (.5)  World Geography (.5)  Honors Economics (.5) | Environmental Conservation (1)  AP Statistics (1)  AP Human Geography (1)  AP Environmental Studies (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | Business Communications & Keyboarding (1), AP Macroeconomics (1), Political Science (.5), Psychology I or Honors Psychology I (1), Business Law (1), Managing Personal Finances Using Excel (1), Speech & Debate (.5), Technological Issues & Impacts (1), Art II: 2 & 3 D Art (.5-1), Internship (.5-1) | | | |
| 8 credits possible per year |
| **Related Completers** | Geographic Information Systems Technology | | | |

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**Technical Cluster**

**What type of work is involved in the *Technical* cluster?**

* Responsibility for engineering and structural design in the manufacture, construction, and transportation of products or utilities.
* Working with one’s hands in a skilled trade concerned with construction, manufacture, installation or repair of products.
* Applying problem solving abilities to design and execute solutions for

today’s technical challenges.

* The creation of systems that perform a useful task.

**What are *Technical* Pathways?**

* Vehicle Operation and Repair
* Construction/Maintenance
* Agriculture & Natural Resources
* Crafts and Related Services
* Home/Business Equipment Repair
* Industrial Equipment Operation and Repair

**What should you think about when considering a career in the *Technical* cluster?**

**Do You . . . .**

* have an understanding of cause and effect?
* have problem solving and math skills?
* enjoy working with tools and equipment?
* perform work tasks to meet standards of accuracy?
* have mechanical ability?
* have manual dexterity and hand-eye coordination?
* have the ability to form mental images of objects or structures from drawings?

**If you answered YES to more of these questions,**

**a career in the *Technical* cluster may be for you!**

**For more details, read on…**

[Back to Career Clusters](#Clusters)

**Completers**

**COMPLETER:** [**Auto Service Technology**](#autoservicetechps)**CREDITS: 6**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

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| --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | AP Language and Composition | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements** |  |  | Auto Service Technology I (3) | Auto Service Technology II (3) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Environment Studies (1), AP Physics (1)**  Advanced Design Applications (1), Technological Design (1), Math Elective beyond Alg. II (.5-1), Science Elective (.5-1), Agricultural Mechanical Technology (1), Chemistry I or Honors Chemistry I (1), Business Communication & Keyboarding (1), Public Speaking (.5), Trigonometry & Pre-Calculus or Honors Trigonometry & Pre-Calculus (1), Technological Issues & Impacts (1), Internship (.5-1) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | Up to 15 Articulated Credits  Community College of Baltimore County, Catonsville  Automotive Technology | Up to 15 Articulated Credits  Penn College of Technology  Automotive Technology | Up to 12 Articulated Credits  University of Northwestern Ohio  Automotive Technology | Up to 4 Articulated credits  Universal Technical Institute  Automotive Technology |
| **End of Program Test:**  **Industry:**  **Taken:** | Auto Service Excellence (ASE)Exams in Brakes, Electrical/Electronic Systems, Engine Performance, and Suspension/Steering  Auto Service Excellence (ASE) Certification  At the completion of each section during Auto Service Technology I & II | | | |

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**COMPLETER:** [**Building Maintenance**](#bldgmnt)**CREDITS: 4**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | AP Language and Composition | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language I | World Language I |  |  |
| **Completer Program**  **Requirements** |  |  |  | Building Maintenance I (3)  Manufacturing and Construction Technologies (1) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Environmental Studies (1), AP Statistics (1)**  Agricultural Mechanical Technology (1), Math elective beyond Alg. II (1), Advanced Design Applications (1)  Technological Design (1Internship (.5-1) | | | |
| 8 credits possible per year |
| **End of Program Test:**  **Industry:**  **Taken:** | NCCT Core Exam v2  National Center for Construction Education and Research (NCCER)  At the end of Building Maintenance I | | | |

**COMPLETER:** [**Carpentry**](#carpps) **CREDITS: 6**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

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| Grade 🡪 | 9 | 10 | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | AP Language and Composition | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements** |  |  | Carpentry I (3) | Carpentry II (3) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Physics (1), AP Calculus AB (1)**  Advanced Design Applications (1), Technological Design (1), Agricultural Mechanical Technology (1), Math elective beyond Alg. II (1),Internship (.5-1) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | Up to 1 year toward Apprenticeship Associated Builders & Contractors | 6 Articulated Credits  Community College of Baltimore County, Catonsville  Construction Technology | | |
| **End of Program Test:**  **Industry:**  **Taken:** | NCCT Academic Carpentry Level I v2  National Center for Construction Education and Research (NCCER)  At the end of Carpentry I | NCCT Academic Core v2  National Center for Construction Education and Research (NCCER)  At the end of Carpentry II | | |

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**COMPLETER:** [**Cisco Networking Academy**](#ciscops) **CREDITS: 5 - 6**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | AP Language and Composition | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology or Exploring Computer Science (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Option 1**  **Completer Program**  **Requirements**  **6 credits** |  |  | CCNA: Routing and Switching I (3) | CCNA: Routing and Switching II (3)  OR  PC Hardware and Software (3) |
| **Option 2**  **Completer Program**  **Requirements**  **5 credits** |  |  | CCNA: Routing and Switching I (3) | Honors IT Internship (2)  OR  Dual Enrollment (2) |
| **Option 3**  **Completer Program**  **Requirements**  **5 credits** |  |  |  | PC Hardware and Software (3)  Honors IT Internship (2)  OR  Dual Enrollment (2) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Statistics (1), AP Physics (1)**  Advanced Design Applications (1), Technological Design (1), Managing Personal Finances Using Excel (1), Honors Accounting I (1), Business Law (1), Internship (.5-1) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | Up to 16 Articulated Credits  CC of Baltimore County, Catonsville, Essex, or Dundalk  Information Technology | Credits determined on an individual bases  Frederick Community College  Computer Science | | |
| **End of Program Test:**  **Industry:**  **Taken:** | Cisco CCENT CCNA / CompTIA A+ certification  CISCO / CompTIA  At the end of CCNA Routing and Switching / PC Hardware and Software | | | |

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**COMPLETER:** [**Collision Repair Technology**](#colrepairps)**CREDITS: 6**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | | AP Language and Composition | English 12 (1) |
| US Government (1) | US History (1) | | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | | Biology (1) |  |
| Algebra I (1) | Geometry (1) | | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) | |  |  |
| World Language (1) | World Language (1) | |  |  |
| **Completer Program**  **Requirements** |  |  | | Collision Repair Technology I (3) | Collision Repair Technology II (3) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Environmental Studies (1), AP Physics (1)**  Advanced Design Applications (1), Technological Design (1), Math Elective beyond Alg. II (.5-1),Honors Accounting I (1), Principles of Business Administration and Management (1), Business Communications & Keyboarding (1), Public Speaking (.5), Internship (.5-1), Honors Commercial Art (.5-1), Art II (.5) | | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | 15 Articulated Credits  Community College of Baltimore County, Catonsville  Automotive Collision Repair & Refinishing | | Up to 16 Articulated Credits  Penn College of Technology  Auto Body/Collision Repair | | |
| **End of Program Test:**  **Industry:**  **Taken:** | Auto Service Excellence (ASE) in Non-Structural Analysis and Damage Repair, Painting and Refinishing, and Structural Auto Service Excellence (ASE) Certification  At the end of Collision Repair Technology II | | | | |

**COMPLETER:** [**Drafting**](#drafting) **CREDITS: 6**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | AP Language and Composition | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements** |  |  | Drafting I (3) | Drafting II (3) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Calculus AB (1), AP Studio Art: 3D Design (1)**  Advanced Design Applications (1), Technological Design (1), Math Elective (.5-1), Graphic Communications (1), Honors Commercial Art (.5), Honors Calculus (1), AP Calculus AB (1), AP Calculus BC (1), Art II: 2 & 3 D Art (.5-1), Internship (.5-1) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | 3 Articulated credits  Carroll Community College  Computer Aided Design | 9 Articulated credits  CC of Baltimore County, Catonsville  Computer Aided Drafting and Design | Up to 7 Articulated credits  Frederick CC  Computer Aided Drafting | |

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**COMPLETER:** [**Electrical Construction**](#elect)**CREDITS: 6**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | | | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | | | AP Language and Composition | English 12 (1) |
| US Government (1) | US History (1) | | | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | | | Biology (1) |  |
| Algebra I (1) | Geometry (1) | | | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | | | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) | | |  |  |
|  | World Language (1) | World Language (1) | | |  |  |
| **Completer Program**  **Requirements** |  |  | | | Electrical Construction I (3) | Electrical Construction II (3) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Physics (1), AP Statistics (1)**  Advanced Design Applications (1), Technological Design (1), Math Elective beyond Alg. I (.5-1), Agricultural Mechanical Technology (1), Business Communications & Keyboarding (1), Public Speaking (.5), Internship (.5-1) | | | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | Up to 1 year toward Apprenticeship Associated Builders & Contractors | | 6 Articulated credits  Community College of Baltimore County, Catonsville  Construction Technology | | | |
| **End of Program Test:**  **Industry:**  **Taken:** | NCCT Academic Core v2  National Center for Construction Education and Research (NCCER)  At the end of Electrical Construction I | | | NCCT Academic Electrical Level I v2  National Center for Construction Education and Research (NCCER)  At the end of Electrical Construction II | | |

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**COMPLETER:** [**Engineering Technology**](#enginer) **- Project Lead the Way Endorsement**

**CREDITS: 5**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | AP Language and Composition | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements** |  |  | Honors Principles of Engineering (1)  Intro to Engineering Design (1) | Computer Integrated Manufacturing (1)  Digital Electronics (1)  Honors Engineering Design & Development (1) |
| **Program Specific Requirements** | A college preparatory math and science course is required each year of high school. See chart above. | | | |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Calculus AB (1), AP Physics I (1)**  AP Statistics (1), AP Calculus BC (1), Trig & Pre-Calculus or Honors Trig. & Pre-Calc (1), Science Research I, II (1 ea.) AP Chemistry (1), Advanced Design Applications (1), Technological Design (1), Technological Issues & Impacts (1), Principles of Fashion & Interior Design (.5-1) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | 16 Transcripted Credits  Rochester Institute of Technology  Engineering | 3 Articulated Credits  University of Maryland Baltimore County  Engineering | 3 Articulated credits  The Community Colleges of Baltimore County  Engineering Technology & Engineering Transfer | 3 credits  Frederick CC  CAD |
| **End of Program Test:**  **Industry:**  **Taken:** | Rochester Institute of Technology Exams in Principles of Engineering, Introduction to Engineering Design, Digital Electronics, & Computer Integrated Manufacturing  Project Lead the Way (PLTW)  At the end of the designated course | | | |

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**COMPLETER:** [**Heating, Ventilation, Air Conditioning**](#hvac)**CREDITS: 6**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

| Grade 🡪 | 9 | 10 | | | 11 | | 12 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | | | AP Language and Composition | | English 12 (1) |
| US Government (1) | US History (1) | | | World History (1) | |  |
| Conceptual Physics (1) | Chemistry (1) | | | Biology (1) | |  |
| Algebra I (1) | Geometry (1) | | | Algebra II (1) | | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | | | PE (.5) / Financial Literacy (.5) | |  |
| Fine Arts (1) | Foundations of Technology (1) | | |  | |  |
| World Language (1) | World Language (1) | | |  | |  |
| **Completer Program**  **Requirements** |  |  | | | HVAC I (3) | | HVAC II (3) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Calculus AB (1), AP Physics I (1)**  Advanced Design Applications (1), Technological Design (1), Math Elective beyond Alg. II (.5-1), Business Communications & Keyboarding (1), Public Speaking (.5), Technological Issues & Impacts (1), Internship (.5-1) | | | | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | 6 Articulated Credits  Community College of Baltimore County, Catonsville  Construction Technology | | 6 Articulated Credits  University of Northwestern Ohio  Commercial HVAC & Refrigeration | | | Up to 1 year toward Apprenticeship  Associate Builders and Contractors | |
| **End of Program Test:**  **Industry:**  **Taken:** | NCCT Academic Core v2  National Center for Construction Education and Research (NCCER)  At the end of HVAC I | | | NCCT Academic HVAC  National Center for Construction Education and Research (NCCER)  At the end of HVAC II | | | |

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**COMPLETER:** [**Heavy Equipment and Truck Technology**](#heavequip)**CREDITS: 6**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

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| --- | --- | --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | | 11 | | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | | AP Language and Composition | | English 12 (1) |
| US Government (1) | US History (1) | | World History (1) | |  |
| Conceptual Physics (1) | Chemistry (1) | | Biology (1) | |  |
| Algebra I (1) | Geometry (1) | | Algebra II (1) | | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | | PE (.5) / Financial Literacy (.5) | |  |
| Fine Arts (1) | Foundations of Technology (1) | |  | |  |
| World Language (1) | World Language (1) | |  | |  |
| **Completer Program**  **Requirements** |  |  | | Heavy Equipment & Truck Technology I (3) | | Heavy Equipment & Truck Technology II (3) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Environmental Studies (1), AP Physics I (1)**  Advanced Design Applications (1), Technological Design (1), Math Elective beyond Alg. II(.5-1), Agricultural Mechanical Technology (1), Principles of Business Administration and Management (1), Business Communications & Keyboarding (1), AP Physics (1), Public Speaking (.5), Technological Impacts & Issues (1), Internship (.5-1) | | | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | Up to 8 Articulated Credits  Pennsylvania College of Technology  Diesel Technology: Heavy Construction Equipment: Technician, Operator or CAT Emphasis; or Electric Power Generation Technology | | Up to 12 Articulated Credits  University of Northwestern Ohio  Diesel Technology | | Up to 4 Articulated credits  Universal Technical Institute  Automotive Technology | |
| **End of Program Test:**  **Industry:**  **Taken:** | Auto Service Excellence (ASE) Diesel Engines and Electrical/Electronic Systems  Auto Service Excellence (ASE)certification  At the end of Heavy Equipment & Truck Technology II | | | | | |

**COMPLETER:** [**Applied Mechanical Engineering**](#machtech)**CREDITS: 6**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

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| --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | AP Language and Composition | English 12 (1) |
| US Government (1) | US History (1) | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | Biology (1) |  |
| Algebra I (1) | Geometry (1) | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) |  |  |
| World Language (1) | World Language (1) |  |  |
| **Completer Program**  **Requirements** |  |  | Applied Mechanical Engineering I (3) | Applied Mechanical Engineering II (3) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Calculus AB (1), AP Physics I (1)**  Advanced Design Applications (1), Technological Design (1), Math Elective beyond Alg. II (.5-1), Business Communications & Keyboarding (1), Honors Calculus, Adv. AP Calculus BC (1), Chemistry II (1), Issues in American Society (.5), Public Speaking (.5), Technological Issues & Impacts (1), Internship (.5-1) | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | 17 Articulated Credits  Community College of Baltimore County, Catonsville  Computer Automated Manufacturing and Industrial Technology | | | |
| **End of Program Test:**  **Industry:**  **Taken:** | Measurement, Materials, and Safety and Job Planning Bench Work and Layout  NIMS (National Institute for Metalworking Skills)  During Applied Mechanical Engineering I | | | |

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**COMPLETER:** [**Masonry**](#msonry) **CREDITS: 6**

* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

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| --- | --- | --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | | | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | | | AP Language and Composition | English 12 (1) |
| US Government (1) | US History (1) | | | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | | | Biology (1) |  |
| Algebra I (1) | Geometry (1) | | | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | | | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) | | |  |  |
| World Language (1) | World Language (1) | | |  |  |
| **Completer Program**  **Requirements** |  |  | | | Masonry I (3) | Masonry II (3) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Physics (1), AP Statistics (1)**  Advanced Design Applications (1), Technological Design (1), Honors Accounting I (1), Agricultural Mechanical Technology (1), Public Speaking (.5), Principles of Business Administration and Management (1), Internship (.5-1) | | | | | |
| 8 credits possible per year |
| **Value Added:**  **From:**  **Program:** | Up to 1 year toward Apprenticeship Associated Builders & Contractors | | 6 Articulated Credits  Community College of Baltimore County, Catonsville  Construction Technology | | | |
| **End of Program Test:**  **Industry:**  **Taken:** | NCCT Academic Core v2  National Center for Construction Education and Research (NCCER)  At the end of Masonry I | | | NCCT Academic Masonry Level I  National Center for Construction Education and Research (NCCER) At the end of Masonry II | | |

**COMPLETER:** [**Welding Technology**](#welding)**CREDITS: 6**

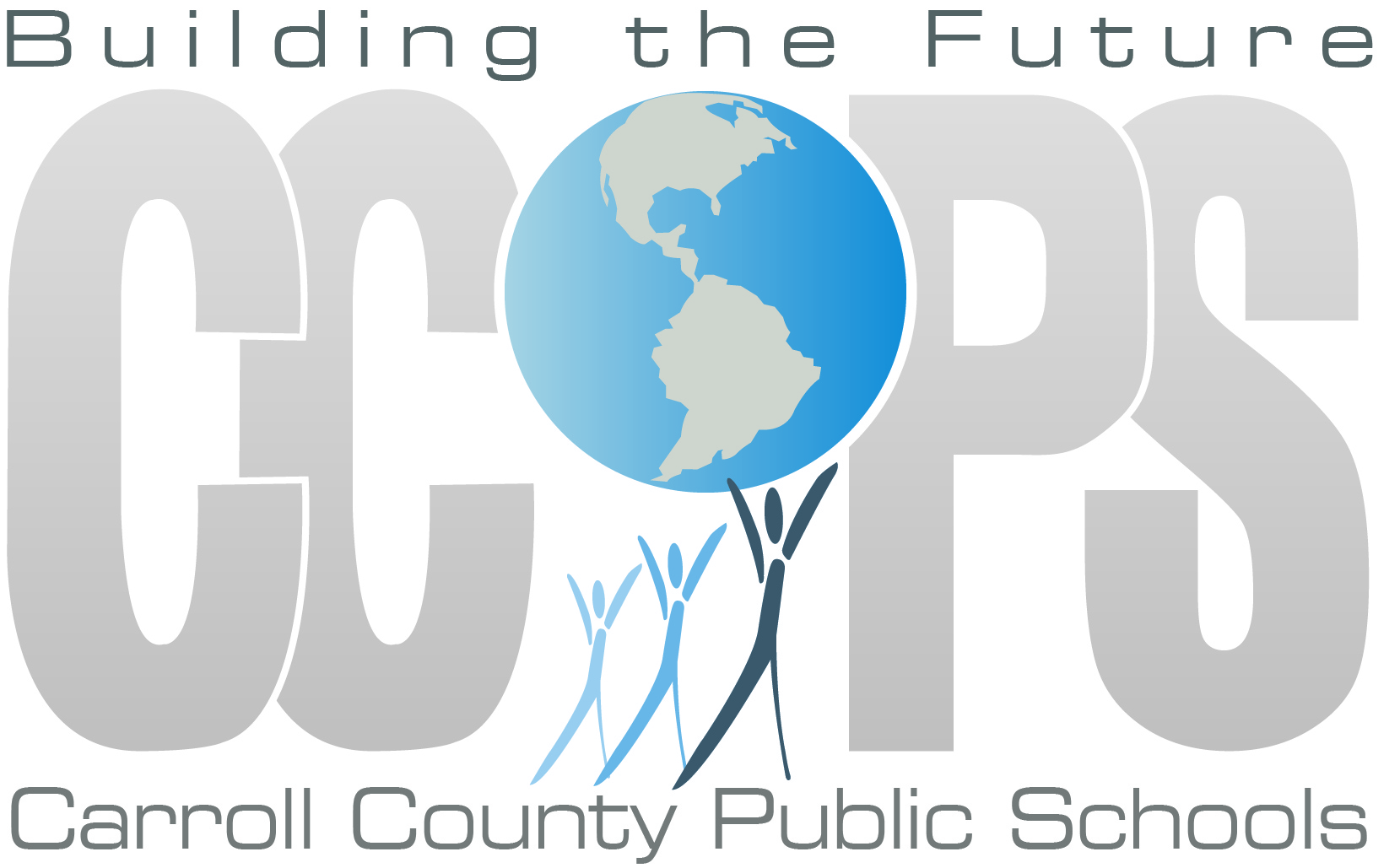
* Guideline for Course Selections
* Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

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| --- | --- | --- | --- | --- | --- |
| Grade 🡪 | 9 | 10 | | 11 | 12 |
| Exact scheduling depends on student’s plan and school’s master schedule. | English 9 (1) | English 10 (1) | | AP Language and Composition | English 12 (1) |
| US Government (1) | US History (1) | | World History (1) |  |
| Conceptual Physics (1) | Chemistry (1) | | Biology (1) |  |
| Algebra I (1) | Geometry (1) | | Algebra II (1) | Higher Level Math (1) |
| PE (.5) / Health (.5) |  | | PE (.5) / Financial Literacy (.5) |  |
| Fine Arts (1) | Foundations of Technology (1) | |  |  |
| World Language (1) | World Language (1) | |  |  |
| **Completer Program**  **Requirements** |  |  | | Welding Technology I (3) | Welding Technology II (3) |
| **Career Specific Electives**  (may be taken any year offered after prerequisites have been satisfied) | **Recommended AP Connections: AP Calculus AB (1), AP Physics I (1)**  Advanced Design Applications (1), Technological Design (1), Math Elective beyond Alg. 11 (.5-1), Principles of Business Administration and Management (1), Business Communications & Keyboarding (1), Managing Personal Finances Using Excel (1), Internship (.5-1), Art II:2 & 3 Dimensional Art (.5-1), Honors Mixed Media (.5-1) | | | | |
| 8 credits possible per year |
| **Value Added:**  **From:** | Up to 1 year toward Apprenticeship  Associate Builders & Contractors | | American Welding Society (AWS)  Certification | | |
| **End of Program Test:**  **Industry:**  **Taken:** | NCCT Academic Core v2  National Center for Construction Education and Research (NCCER)  At the end of Welding I | | NCCT Academic Welding  National Center for Construction Education and Research (NCCER)  At the end of Welding II | | |

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**Carroll County Public Schools**



**Program of Studies**

**Course Offerings and Descriptions**

**2019-2020**

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**Organization**

Course descriptions are listed by subject area. The course numbers are coded to facilitate organization of instructional groups and provide student record information. The first two digits identify the subject area, the third and fourth digits identify the course, the fifth digit identifies the credit for the course, and the sixth digit specifies the level of instruction defined as follows:

1 – Basic

6 – Academic

7 – Articulated

8 – Honors

9 – AP and Transcripted

**Articulated Credit Courses** – Students may receive college credit for these courses as a part of a completer program. These credits, that do not transfer to other post and secondary institutions, are awarded under the terms of an agreement made with a specific postsecondary institution.

**Transcripted Credit Courses** – Students may earn college credits by taking these courses and successfully completing the corresponding competency tests. Credit is documented on an official transcript from the specific postsecondary institution that awarded the credit. These credits may transfer to other postsecondary institutions.

**NCAA Eligibility** – CCPS Courses that meet NCAA eligibility criteria are marked with a 🏋 in the course descriptions.



**Completer Program** – Indicates an approved completer program. The suggested course sequence for each completer program can be found in the Career Pathways Guide on the page indicated in parenthesis.

**AGRISCIENCE**

[**Wildlife and Natural Resources**](#wildnnatural) **–** Four Credit Completer

[**CASE** **Agricultural Science – Animal**](#AGscienceANIMAL) **–** Four Credit Completer

[**CASE** **Agricultural Science – Plant**](#AGsciencePLANT) **–** Four Credit Completer



**HONORS AGRICULTURAL COOPERATIVE INTERNSHIP**

Course: 504108 (Honors) ½ credit

504118 (Honors) 1 credit

504128 (Honors) 2 credits

Students in an agricultural program, in the senior year, may earn up to two credits for their work experience in an agricultural‑related business. The work experience in a business setting will be an extension of the classroom program and provide the student with on the job experiences. The place where the student works must be pre-approved by the program coordinator. An agreement detailing the cooperative work experiences to be gained by the student will be agreed upon and signed by the employer, student, student's parents and the program coordinator. Experiences gained in this course will be valuable as the student transitions from school to the world of work or post-secondary education.

Prerequisites and other notes: 2.5 overall GPA, 94% attendance (previous semester). Parents are responsible for student transportation. This is the culminating course for the Wildlife and Natural Resources completer program only. All courses in the completer sequence must be completed prior to the internship.

**AGRICULTURAL MECHANICAL TECHNOLOGY**

Course: 501117 (Articulated) 1 credit

This course is designed to familiarize the student with the basic theory and specialized skills relative to mechanics in the diverse field of agriculture. Topics will include safety, material handling, tool identification and use, construction systems, electrical systems, masonry systems, environmental systems, the selection and use of surveying equipment, and water management system installation and service.

Prerequisites and other notes: This course is part of the Wildlife and Natural Resources completer program.

**CASE Agriculture Business, Research, and Development**

Course: 500219 (Transcripted) 1 credit

This course is the capstone course available to students through the CASE™ curriculum. Students will have the opportunity to focus on their specific area of interest in agriscience. Instruction and continued inquiry-based projects will be implemented to integrate key learning from pervious CASE courses. Students will apply their learning to real-world career situations through research projects, extensive portfolios, Supervised Agricultural Experience (SAE) projects or other internship/work-based learning opportunities.

Prerequisites and other notes: This is the culminating course for the CASE completers. All courses in the CASE completer sequence must be completed prior to taking this class. This course is open only to 12th grade students. Students who want to participate in an internship as a part of this class must have a 2.5 overall GPA in Academic classes and 94% attendance from the previous semester. Parents are responsible for student transportation. CASE capstone course must be taught by a CASE trained teacher.

**CASE Agricultural Science—Animal**

Course: 501219 (Transcripted) 1 credit

This course is one of the foundational courses within the CASE™ sequence. It 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. Through the use of hands-on projects and activities, students will learn animal science concepts 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.

Prerequisites and other notes: Introduction to Agriculture, Food and Natural Resources is a prerequisite. This course is part of a CASE completer program. It is recommended for 10th and 11th grade students.

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**CASE Agricultural Science—Plant**

Course: 501419 (Transcripted) 1 credit

This course is one of the foundation courses within the CASE™ sequence. It 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 plant science. Students will work in teams, using hands-on projects and activities, to learn plant science concepts. They will work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers and producers, and plant research specialists face in their respective careers.

Prerequisites and other notes*:* Introduction to Agriculture, Food and Natural Resources is a prerequisite. This course is part of a CASE completer program. It is recommended for 10th and 11th grade students.

**CASE Animal and Plant Biotechnology**

Course: 501619 (Transcripted) 1 credit

This course is the third course within the CASE™ sequence of classes. It is designed to increase student understanding of biotechnology concepts. Students will complete hands-on activities, projects, and problems designed to build content knowledge and technical skills. They will become proficient at projects involving micro pipetting, bacterial cultures and transformations, electrophoresis, and polymerase chain reaction. Research and experimental design will be highlighted as students develop and conduct industry appropriate investigations.

Prerequisites and other notes: CASE Agricultural Science—Animal **or** CASE Agricultural Science—Plant is a prerequisite. Biology is a prerequisite or may be taken concurrently. This course is part of a CASE completer program. It is recommended for 11th and 12th grade students.

**FLOWER DESIGN**

Course: 405606 (Academic) ½ credit

Students demonstrate and practice the elements and principles of design as they create a variety of projects using live materials as well as fabric, dried, and pressed flowers. Only basic supplies for learning each technique will be supplied; project costs will be the responsibility of the student.

Prerequisites and other notes: Flower Design may be repeated for up to 2 credits.

**HONORS CASE INTRODUCTION TO AGRICULTURE, FOOD, AND NATURAL RESOURCES**

Course: 500118 (Honors) 1 credit

This course introduces students to the world of agriculture and its career pathways. Students will experience hands-on activities, projects, and problems that involve the study of communication, sciences of agriculture, plants, animals, natural resources, and agricultural mechanics. They will learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning.

Prerequisites and other notes: This course is the first class for all agriscience completer programs. It is recommended for 9th and 10th grade students.

**WILDLIFE MANAGEMENT**

Course: 502107 (Articulated) ½ credit

Wildlife Management introduces students to wildlife in the Eastern United States. Emphasis is placed on land and marine mammals and fish. Students learn identification, habits, habitat requirements, and ecosystem/food chain interactions. Public policies and governmental laws pertaining to wildlife management will be discussed. Career opportunities in wildlife management will be explored.

Prerequisites and other notes: This course is part of a completer program.

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**BUSINESS** **EDUCATION**



[**Accounting –** Four Credit Completer](#accounting)

[**Administrative Services** – Four Credit Completer](#adminserv)

[**Business Administration and Management –** Four Credit Completer](#BAM)

[**Marketing –** Four Credit Completer](#marketing)

**HONORS ACCOUNTING I**

Course: 352818 (Honors) 1 credit

Accounting I covers concepts that are equivalent to the first-half of a college accounting class. Students will study accounting as it relates to the business environment. Major units of study will include recording business transactions, the adjusting process, completing the accounting cycle**,** and merchandising operations.

Prerequisites and other notes: Recommended for grades 10 - 11. This course is a required foundational course for all business education completer programs.

**ACCOUNTING II**

Course: 353219 (Transcripted) 1 credit

Accounting II covers concepts that are equivalent to the second-half of a college accounting class. Major units of study will include internal control and cash, receivables, plant assets, intangibles, current liabilities, and long-term liabilities and bonds payable.

Prerequisites and other notes: Honors Accounting I is a prerequisite. This course is part of the Accounting and Financial Services completer programs. At the end of this course, students will take the Carroll Community College Accounting 101 final exam. Students who successfully complete this course and the exam will receive transcripted credit from Carroll Community College.

**Advanced Business Management**

Course: 353319 (Transcripted) 1 credit

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

Prerequisites and other notes: Principles of Business Administration and Management is a prerequisite. Honors Accounting I is a prerequisite or may be taken concurrently. This course is part of the Business Administration and Management completer program. Students will take the Principles of Management CLEP exam at the end of the course at the CCPS CLEP testing center. Parents are responsible for student transportation.

**Honors Business Education Capstone**

Course: 353418 (Honors) 1 credit

This is the final course in the Accounting and the Business Administration and Management completer programs. Students will apply the knowledge and skills acquired in previous business management courses to complete an individualized senior project and portfolio. The project will involve intense problem-solving in accounting or business management and apply learning to authentic situations. Projects and portfolios will be presented for review and critique.

Prerequisites and other notes: This is the final course in the Accounting and the Business Administration and Management completer programs. In lieu of this course, students may opt to take AP Macroeconomics, Career Related Internship, or Dual Enrollment-Business as their final course in the completer programs. All courses in these program sequences are prerequisites to this capstone class.

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**ADVANCED SOFTWARE APPLICATIONS**

Course: 355717 (Articulated) 1 credit

This course develops advanced skills in software applications. Students will prepare for the specialist level of Microsoft Office Specialist (MOS) certification program. Students will be required to think analytically, manipulate information and use the computer as a productivity tool through integrated application programs.

Prerequisites and other notes: This course is part of the Administrative Services completer program. Students who are a part of the Administrative Services completer program will take the Microsoft Office Systems (MOS) specialist exam in either Excel or Word (versions 2010) at the end of this course at Carroll Community College. Parents are responsible for student transportation.

**BUSINESS COMMUNICATIONS AND KEYBOARDING**

Course: 350616 (Academic) 1 credit

Business Communications and Keyboarding assists students in developing effective workplace communication skills, while gaining the ability to keyboard using the touch-key system. The course includes instruction in computer hardware and software systems, digital citizenship, and use of the internet and World Wide Web. Students will be required to develop and work with authentic tasks using word processing, spreadsheet, multimedia presentation and publishing skills. This course provides a solid foundation for the use of computers in both academic and business settings

**Managing Personal Finances Using Excel**

Course: 355616 (Academic) 1 credit

This course provides students with knowledge and practice in managing personal finances while developing skills in spreadsheet software applications. Students will learn about making informed, financially responsible decisions; relating career, education and income; planning and managing money; managing credit and debt, creating and building wealth and managing risk to preserve wealth.

Prerequisites and other notes: This course meets the graduation requirement for financial literacy.

**HONORS MARKETING**

Course: 506118 (Honors) 1 credit

This course introduces the student to the essential concepts of marketing theory and the foundations, functions and benefits of marketing in a free enterprise system. Throughout the course, students will use and incorporate technologies to conduct research and communicate the results. In addition, students will investigate the various and ever-improving alternatives for electronic marketing. Students will integrate their knowledge of legal issues, the importance of ethics, and social responsibilities in marketing. Students will understand and demonstrate strong interpersonal skills and develop an appreciation of human diversity as they build a solid understanding of the many career opportunities in the field of marketing.

Prerequisites and other notes: Principles of Business Administration and Management and Honors Accounting Iare prerequisites. This course is part of the Marketing completer program.

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**ADVANCED MARKETING**

Course: 506619 (Transcripted) 1 credit

This course builds on all of the concepts studied in Honors Marketing by providing in-depth, comprehensive project-based learning opportunities. Students will apply their understanding of consumer buying behavior and relationships; the tools and techniques used by organizations that influence marketing strategy decisions; and market segmentation and target marketing in order to create a marketing plan. Throughout the course, students will use strong interpersonal skills and incorporate technologies when conducting primary and secondary research. In addition, students will include electronic and internet marketing within their marketing plan. Students will create and/or use a marketing information system(s) when working with or collecting data. Students will integrate their knowledge of legal issues, ethics, diversity and social responsibilities in developing the marketing plan.

Prerequisites and other notes: Honors Marketing is a prerequisite. This course is part of the Marketing completer program. Students will take the Principles of Marketing CLEP exam at the end of the course at the CCPS CLEP testing center. Parents are responsible for student transportation.

**Principles of Business Administration and Management**

Course: 350417 (Articulated) 1 credit

This course provides a foundational understanding of the role of business in a global society, American business as a dynamic process, forms of business ownership, management concepts, marketing, production and distribution, and accounting and finance. Along with a brief historical perspective, business terminology and principles will be emphasized. Students will learn to analyze the functions of business through evaluating, planning, organizing, and controlling. Strong communication skills will be emphasized as necessary for success in the workplace and college. Students will think analytically; practice using teamwork for making decisions and solving problems; and apply skills for career success. Students’ understanding of the business world gained in this course will help to prepare them to meet their career and college goals and objectives.

Prerequisites and other notes: This course is one of two foundation courses that are required for all business education completer programs. It is recommended for 10th grade students.

**CAREER AND TECHNOLOGY EDUCATION (OCCUPATIONAL)**

**CAREER AND TECHNOLOGY EDUCATION RESEARCH AND DEVELOPMENT**

Course: 559906 (Academic) ½ credits

559916 (Academic) 1 credits

559926 (Academic) 2 credits

559936 (Academic) 3 credits

This course is designed primarily for those students who wish to take additional course work in a program at the Carroll County Career and Technology Center. Learning may focus on research and development projects/activities within the classroom/lab setting or at a local business through cooperative work experience. Detail for the student’s individual learning plan will be worked out with the respective teacher and/or career coordinator.

Prerequisites and other notes: Must complete appropriate prerequisites and obtain approval of the instructor.

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**[Academy of Health Professions](#science) –** Four to Six Credit Completer

**FOUNDATIONS OF MEDICINE AND HEALTH SCIENCE**

Course: 556519 (Transcripted) 1 credit

This course is designed to provide students with an overview of the therapeutic, diagnostic, environmental and information systems of the health care industry. Students will begin to prepare for a medical and health science career by developing a broad understanding of the pathways in the Health and Biosciences career cluster. Students will learn about ethical and legal responsibilities, as well as the history and economics of health care. Students will engage in processes and procedures that are used in the delivery of essential healthcare services. As students learn to use medical technology within a variety of medical and health care environments, they will develop academic, technical and workplace skills for success necessary to function as a health professional.

Prerequisites and other notes: Chemistry II must be completed or taken concurrently.  This course is the first course in a 4 - 6 credit completer program. Students take a college-level exam at the end of the course.

**STRUCTURE AND FUNCTIONS OF THE HUMAN BODY**

Course: 556619 (Transcripted) 1 credit

Students in this course study the structure and functions of the human body, including cellular biology and histology. Systematic study involves homeostatic mechanisms of the body systems and special senses. Students will investigate the body’s responses to the external environment, maintenance of homeostasis, electrical interactions, transport systems, and energy processes. Students will conduct laboratory investigations and field work, use scientific methods during investigations to solve problems and make informed decisions. Students will learn the medical terminology related to body systems.

Prerequisites and other notes: Foundations of Medicine and Health Science must be completed or taken concurrently. This course is part of a 4 - 6 credit completer program. Students take a college-level exam at the end of the course.

**CNA: THEORY AND CLINICAL EXPERIENCE**

Course: 556416 (Academic) 1 credit

Students will acquire the knowledge and skills required to provide basic health care to clients/patients with a variety of health care needs. Instruction includes theory, practical application in the laboratory, on-site observations and planned clinical experiences in several health care service areas. Clinical experiences are supervised by registered nurses and other health care professionals. Students will work toward Certified Nursing Assistant (CNA) and Geriatric Nursing Assistant (GNA) certification. This course meets the standards set by the Maryland Board of Nursing.

Prerequisites and other notes: Foundations of Medicine and Health Science and Structure and Functions of the Body must be completed or taken concurrently. This course is part of a 4 - 6 credit completer program. Parents are responsible for student transportation. Students must meet all requirements established by the health facility partner. Students are required to take an end of program assessment.

**Physical Rehabilitation: Theory and Clinical Experience**

Course: 556916 (Academic) 1 credit

Students will acquire the knowledge and skills required to provide basic physical rehabilitation care to clients/patients with a variety of rehabilitation needs. Instruction includes theory, practical application in the laboratory, on-site observations and planned clinical experiences in several health care service areas. Clinical experiences are supervised by health care professionals. Students have an opportunity to earn clinic hours in rehabilitation settings that meet prerequisite requirements in many post-secondary school physical rehabilitation programs. These types of programs include, but are not limited to: physical therapy; occupational therapy; speech/language pathology; athletic training; and sports medicine.

Prerequisites and other notes: Foundations of Medicine and Health Science and Structure and Functions of the Human Body must be completed or taken concurrently. This course is part of a 4-6 credit completer program. Parents are responsible for student transportation. Students must meet all requirements established by the health facility partner.

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**SPECIALIZED MEDICAL OPTION**

Course: 556816 (Academic) 1 credit

Students will have the opportunity to attend Carroll Community College to focus on and earn certification in a specialized area of health care. Options will vary according to the current schedule at Carroll Community College and may include but are not limited to: Dental Assistant/Oral Radiography, Pharmacy Technician, and medical records coding, Other specialized medical options are available at CCCTC: Surgical Technology and Certified Clinical Medical Assistant.

Prerequisites and other notes: Foundations of Medicine and Health Science and Structure and Functions of the Body must be completed or taken concurrently. This course is part of a 4-6 credit completer program. Parents are responsible for the cost of the course at Carroll Community College and student transportation. Students are required to take an end of program assessment.

**HONORS ACADEMY OF HEALTH PROFESSIONS SEMINAR AND INTERNSHIP**

Course: 556708 (Honors) ½ credit

556718 (Honors) 1 credits

556728 (Honors) 2 credits

556738 (Honors) 3 credits

Students will have the opportunity to integrate content and knowledge of specific medical areas, such as surgical technology, or medical assisting through classroom preparation and clinical experience in a healthcare setting. Student knowledge will be extended through practical application under the supervision of health care professionals. Students will finalize their career portfolio and present it for review and critique.

Prerequisites and other notes: Foundations of Medicine and Health Science and Structure and Functions of the Body must be completed or taken concurrently. CNA certification may be required for some placements. This course is part of a 4 - 6 credit completer program. Parents are responsible for student transportation. Students must meet all requirements established by the health facility partner. This class may be extended for a maximum of three (3) credits.

**[Auto Service Technology](#autoservicetechps)** - Six Credit Completer



**AUTO SERVICE TECHNOLOGY**

Course: 551337‑I (Articulated) 3 credits

551537‑II (Articulated) 3 credits

This program provides the necessary knowledge and skills to enter the automotive service field. Students learn about all the major systems of the automobile including the electrical, lubrication, fuel, cooling, ignition, suspension, braking, engine, transmission, and emissions. Training includes the use of technical manuals, computerized diagnostic equipment, and a variety of hand and power tools. At the end of the program, students take certification tests.

Prerequisites and other notes: These courses are part of the Auto Service Technology completer program. At the end of this program, students take will take the Auto Service Excellence exam – Developed by Auto Service Excellence (ASE), National Automotive Technicians Education Foundation (NATEF), and Skills USA Certification Tests for Maintenance and Light Repair, Brakes, Electrical/Electronic Systems, Engine Performance, and Suspension & Steering.

**[Biomedical Sciences](#science) – Project Lead The Way –** Four Credit Completer



**PRINCIPLES OF BIOMEDICAL SCIENCES**

Course: 556919 (Transcripted) 1 credit

This course is an introduction to the biomedical sciences through hands-on projects and problems. Student work involves the study of human medicine, research processes and an introduction to bioinformatics. Students investigate the human body systems and various health conditions. Key biological concepts including homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease are embedded in the curriculum. Engineering principles including the design process, feedback loops, fluid dynamics and the relationship of structure to function are also incorporated. This career program is designed for students who have career interests in biomedical research and biotechnology. Student interested in patient care should pursue the Allied Health Careers program.

Prerequisites and other notes: This course is part of the Biomedical Sciences completer program. This 11th grade class is the first course of a four credit career and technology education completer program. Student must have completed or be concurrently enrolled in Algebra II and a college preparatory science class in both 9th and 10th grades. A minimum of one credit each in both college preparatory math and science is required in both 11th and 12th grades.

**HUMAN BODY SYSTEMS**

Course: 557019 (Transcripted)1 credit

This course will engage students in the study of the human body and its physiology, especially in relationship to human health. Students will use a variety of monitors to examine body systems at rest and under stress, and observe the interactions between the various body systems. Students will use software to design and build systems to monitor body functions.

Prerequisites and other notes: This course is part of the Biomedical Sciences completer program. This 11th grade class is part of a four credit career and technology education completer program. It may be taken concurrently with Principles of Biomedical Sciences. Student must have completed or are concurrently enrolled in Algebra II and a college preparatory science class in both 9th and 10th grades. A minimum of one credit each in both college preparatory math and science is required in both 11th and 12th grades.

**MEDICAL INTERVENTION**

Course: 557119 (Transcripted)1 credit

Students will use problems and project based instructional strategies to investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation and supportive care. Students will study the design and development of various medical interventions including vascular stents, cochlear implants, and prosthetic limbs. They will review the history of organ transplants and gene therapy, and become aware of current developments. Using 3-D imaging software and current research, students will design and build a model of a therapeutic protein.

Prerequisites and other notes: This course is part of the Biomedical Sciences completer program. Human Body Systems is a prerequisite or may be taken concurrently. This 12th grade class is part of a four credit career and technology education completer program. A minimum of one credit each in both college preparatory math and science is required in 12th grade.

**BIOMEDICAL INNOVATION**

Course: 557219 (Transcripted) 1 credit

This capstone course gives student teams the opportunity to work with a mentor, identify a science research topic, conduct research, write a scientific paper, and defend team conclusions and recommendations to a panel of outside reviewers. Each team will have one or more mentors from the scientific and/or medical community guiding their scientific research. This course may be combined with the capstone course from the PLTW Engineering program, allowing students from both pathways to work together to engineer a product that could impact healthcare.

Prerequisites and other notes: Completion of all three prerequisite PLTW Biomedical Sciences classes. Medical Intervention may be taken concurrently. This course is part of a 4 credit completer program. Students are required to take end of program assessments.

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[**Building Maintenance**](#buildmaintenance) - Four Credit Completer

**BUILDING MAINTENANCE**

Course: 559736 (Academic) 3 credits

Students in this program will be provided the opportunity to acquire the knowledge and experience needed to work in a wide range of entry-level positions concerned with maintaining commercial buildings. Skills learned in this program will help students perform minor and routine painting, plumbing, electrical wiring, and other related maintenance activities, using appropriate tools and equipment. Students will also receive experience in shipping, receiving, and organizing supplies needed for maintenance and repair work. Program completers should be able to demonstrate a wide range of skills needed by employees in the expanding building engineering industry.

Prerequisites and other notes: Students are required to take the National Construction Career Test (NCCT) titled Academic Core-Introductory Craft Skills at the end of Level I.

**MANUFACTURING AND CONSTRUCTION TECHNOLOGIES**

Course: 452216 (Academic) 1 credit

Manufacturing is the process of converting raw materials into products. The manufacturing world consists of a variety of materials such as wood, plastics, ceramics, composites, and metals. Processes consist of forming, separating, conditioning, and fabrication (combining). Students will learn about durable and non-durable goods. Construction is the building of structures. The construction world consists of homes, roads, bridges, and other structures. Using hands-on activities, students will learn that structures are made from a wide variety of products and processes. During this course, an equal emphasis will be placed on manufacturing and construction systems. This course is for all students interested in designing and building physical products or structures.

Prerequisites and other notes: This course is part of the Building Maintenance completer program. This course is only offered at Carroll County Career and Technology Center.

**[Carpentry](#techcluster) –** Six Credit Completer



**CARPENTRY**

Course: 551637-I (Articulated) 3 credits

551837-II (Articulated) 3 credits

This program prepares students to be successful in the construction industry. The program focuses on general construction trade skills such as safety with hand and power tools, blueprint reading, construction math, rigging, and employability skills. Units of study specific to carpentry include: building materials; foundations; concrete forms; floor systems; framing; window and door installation; site layout; exterior finishing; roofing applications; thermal and moisture protection; and, interior finish.

Prerequisites and other notes: These courses are part of the Carpentry completer program. Students are required to pass the National Construction Career Test (NCCT) titled Academic Core-Introductory Craft Skills to achieve Level II status in construction programs. At the end of Level II, students take the NCCT Academic Carpentry Level I.

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**[CISCO Networking Academy](#techcluster) –** Five to Six Credit Completer



**CCNA: ROUTING AND SWITCHING I**

Course: 557137(Articulated) 3 credits

This class introduces and describes the architecture, structures, functions, components, models and operations of computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media and operations are introduced. Students learn how to build simple LANs, perform basic configurations and troubleshoot problems of routers and switches, implement IP addressing schemes, and resolve common network issues. This career-oriented approach to learning networking empowers students to enter a career and further their education in the computer networking field.

Prerequisites and other notes: This course is the first course in a 5or 6 credit completer program.

**CCNA: ROUTING AND SWITCHING II**

Course: 557237 (Articulated) 3 credits

This class continues the work of configuring routers and switches for advanced functionality. Students develop the knowledge and skills needed to implement operations in a network. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Knowledge and skills are developed that are needed to implement virtual private network operations in a complex network.

Prerequisites and other notes: Completion of CCNA: Routing and Switching I. This course is the final class in a 6 credit completer program. All students in this class are required to take an industry=standard end of program assessment.

**PC HARDWARE AND SOFTWARE**

Course: 557537 (Articulated) 3 credits

This course presents an in-depth exposure to computer hardware and operating systems, as well as “soft skills” related to customer interaction and service. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. This course prepares students for CompTIA's A+ certification.

Prerequisites and other notes: Completion of CCNA: Routing and Switching I & II. This course is part of a 5 or 6 credit completer program. Students are required to take an end of program assessment.

**HONORS IT INTERNSHIP**

Course: 557528 (Honors) 2 credits

Students will have the opportunity to integrate content and knowledge of computer repair and/or networking through an individualized training plan. Student knowledge will be extended through practical application under the supervision of technical support professionals

Prerequisites and other notes: Completion of CCNA: Routing and Switching III and IV or PC Hardware and Software. This course is part of a 5 credit completer program. Parents are responsible for student transportation.

**[Collision Repair Technology –](#techcluster)** [Six Credit Completer](#techcluster)



**COLLISION REPAIR TECHNOLOGY**

Course: 550937-I (Articulated) 3 credits

551137-II (Articulated) 3 credits

This program stresses the development of the skills and knowledge necessary to succeed in the field of collision repair and refinishing. Students will learn how to repair and replace automotive structural and non-structural components. This includes replacing panels, frame repair, refinishing, straightening metal, replacing glass, and paint preparation. Emphasis will also be placed on repairing plastic, estimating repair cost, welding, cutting, minor automotive service repair, and customization.

Prerequisites and other notes: These courses are part of the Collision Repair Technology completer program. At the end of the program, students take the Auto Service Excellence assessment – developed by Auto Service Excellence (ASE) in partnership with Automotive Youth Educational Systems (AYES), National Automotive Technicians Education Foundation (NATEF), and Skills USA. Certification Tests for Non-Structural Analysis & Damage Repair, Painting & Refinishing, and Structural Analysis & Damage Repair.



[**Computer Science**](#techcluster) **– Project Lead The Way –** Four Credit Completer

**PLTW AP COMPUTER SCIENCE PRINCIPLES**

Course: 550519 (AP) 1 credit

This course is a part of the Project Lead The Way Computer Science Program. PLTW CSP aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. The course also aims to build students’ awareness of the tremendous demand for computer specialists and for professionals in all fields who have computational skills. Each unit focuses on one or more computationally intensive career paths.

The course aims to engage students to consider issues raised by the present and future societal impact of computing. Students use

Python® as a primary tool and incorporate multiple platforms and languages for computation. Students practice problem solving with structured learning experiences and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Problems aim for ground-level entry with no ceiling so that all students can successfully engage the problems. Students with greater motivation, ability, or background knowledge will be challenged to work further.

Prerequisites and other notes: This course is a level 9 AP course, and is part of a 4 credit completer program. Students are required to take end of program assessments.

**PLTW AP COMPUTER SCIENCE A**

Course: 550619 (AP) 1 credit

This course is a part of the Project Lead The Way Computer Science Program. PLTW AP Computer Science A (CSA) course covers all student learning outcomes and topics addressed in the College Board’s AP Computer Science A course description. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems.

Prerequisites and other notes: This course is a level 9 AP course, and is part of a 4 credit completer program. Students are required to take end of program assessments.

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**PLTW CYBERSECURITY**

Course: 550718 (Honors) 1 credit

This course is a part of the Project Lead The Way Computer Science Program. Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attached; in SEC, students solve problems by understanding and closing these vulnerabilities. This course raises students’ knowledge of and commitment to ethical computing behavior. It also aims to develop students’ skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

Prerequisites and other notes: This course is a level 8 course, and is part of a 4 credit completer program. Students are required to take end of program assessments.

**PLTW COMPUTER SCIENCE ESSENTIALS**

Course: 550918 (Honors) 1 credit

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

Prerequisites and other notes: This course is a level 8 course, and is part of a 4 credit completer program. Students are required to take end of program assessments.

**[Cosmetology Careers –](#ss)** Nine Credit Completer



**PRINCIPLES AND PRACTICES OF COSMETOLOGY**

(2nd Semester Junior Year)

Course: 552736 (Academic) 3 credits

This course provides an introduction to the field of cosmetology. Students develop and practice basic skills in cosmetology, develop a broad understanding of the variety of career options available to a licensed cosmetologist, and learn how science and math are fundamental aspects of the practice of cosmetology.

Prerequisites and other notes: Human Anatomy and Physiology is a recommended prerequisite that may be taken concurrently. All other course requirements for graduation should be completed by the end of grade 11. This course is part of the Cosmetology completer program.

**ADVANCED COSMETOLOGY: THEORY AND APPLICATION**

(1st Semester Senior Year)

Course: 552836 (Academic) 3 credits

This course allows students to develop and practice more advanced techniques in the field of cosmetology. Students will demonstrate knowledge and skill in the areas of esthetics, thermal hair procedures and hair color; and artificial nail techniques. They will apply foundation knowledge in science as it relates to cosmetology and practice technical and workplace skills in a school salon setting.

Prerequisites and other notes: Upon successful completion of the first 1,000 hours of the program and the instructor’s recommendation, students may apply for the 1000-hour letter to be eligible to participate in up to 300 hours of a supervised work-based experience in a salon setting. This course is part of the Cosmetology completer program.

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**MASTERY OF COSMETOLOGY**

(2nd Semester Senior Year)

Course: 554936 (Academic) 3 credits

This course provides students the opportunity to further refine and apply skills that support all aspects of the cosmetology industry. It will assist in preparing students to obtain employment and advance in the field of cosmetology upon passing the State Board of Cosmetologists’ licensing examination.

Prerequisites and other notes: This course is part of the Cosmetology completer program. Students are required to take the State Board of Cosmetologists’ licensing examination at the conclusion of this class.

**CULINARY ARTS I – Culinary Basics**

**[Culinary Arts](#ss) – American Culinary Federation (ACF) –** Six Credit Completer



Course: 558837 (Articulated) 3 credits

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

Prerequisites and other notes: This course is part of the Culinary Arts completer program. At the end of this course, students take the American Culinary Federation (ACF) Culinary Arts Cook Level I exam.

**CULINARY ARTS II – PROFESSIONAL COOKING**

Course: 558937 (Articulated) 3 credits

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

Prerequisites and other notes: Culinary Arts I. This course is part of the Culinary Arts completer program. At the end of this course, students take the American Culinary Federation (ACF) Culinary Arts Cook Level 2 exam.

**CULINARY ARTS II - PROFESSIONAL BAKING AND PASTRY**

Course: 559237 (Articulated) 3 credits

Students in this course explore the fundamental concepts and techniques in baking. They will be instructed in the fundamentals of baking science, terminology, equipment, ingredients, weights and measurements, formula conversion and costing of recipes while maintaining the professional standards of the foodservice industry. Students will prepare a variety of baked goods including breads, rolls, pastries, cakes, tortes, pies, and cookies. Students participate in demonstrations, group exercise and school-based enterprises to supplement the students’ development of technical skills and knowledge.

Prerequisites and other notes: Culinary Arts I. This course is part of the Culinary Arts completer program. Students are required to take the American Culinary Federation (AFC) Retail Commercial Baking exam.

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**Career Research and Development –** Four Credit Completer



**CAREER RESEARCH AND DEVELOPMENT**

Course: 559616 – I (Academic) 1 credit

Students in this course use the Maryland career development framework to explore potential career areas through the process of self-awareness, career awareness, career exploration, and setting academic and career-related goals. Course content will integrate the development of competency in business writing, as well as, the Skills for Success (communication, learning, interpersonal, technology, and critical thinking). Students will also be required to prepare for and participate in a mock job interview process and maintain a career portfolio.

Prerequisites and other notes: Recommended for grades 11 and 12. This course is available only to students attending Gateway School or Flexible Student Support. This course is part of the Career Research and Development completer program.

**CAREER PREPARATION AND TRANSITION**

Course: 559716 – II (Academic) 1 credit

Students in this class will learn how to effectively plan for their future incorporating employment, education and training goals, building financial literacy skills, and integrating the Maryland’s Skills for Success as they begin to manage their career and educational choices. They will continue to build and strengthen their career portfolio to demonstrate proficiencies in workplace readiness.

Prerequisites and other notes: Recommended for grades 11 and 12. Career Research and Development is a prerequisite. This course is available only to students attending Gateway School or Flexible Student Support. This course is part of the Career Research and Development completer program.

**CAREER RESEARCH AND DEVELOPMENT INTERNSHIP**

Course: 559726 – III (Academic) 2 credits

The work-based learning experience takes place at the work-site, includes a minimum of 250 hours, and may be paid or unpaid. An individualized training plan identifies the appropriate competencies, duties, and tasks in academic, technical, and workplace readiness areas that apply directly to the students’ goals.

Prerequisites and other notes: Available for 12th grade students only. Career Research and Development and Career Preparation and Transition are prerequisites. This course is available only to students attending Gateway School or Flexible Student Support. This course is part of the Career Research and Development completer program.

**[Drafting](#techcluster) –** Six Credit Completer



**DRAFTING**

Course: 553037‑I (Articulated) 3 credits

553237‑II (Articulated) 3 credits

This program is designed for study of technical communication. Through individual and group instruction, students are prepared to pursue drafting careers in engineering, surveying, construction, manufacturing, and other specialized fields. Projects completed by other career and technology departments are designed and drawn within this program. Frequently, students assist with community projects through design work and drawings. Students with personal interests are encouraged to develop individual projects. The program is intended to provide the student with the required technical skills for blueprint reading in any technical field and to prepare them for certification in AutoCad.

Prerequisites and other notes: These courses are part of the Drafting completer program. Students are required to take the AutoCad certification exam at Carroll Community College. Parents are responsible for student transportation.

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**[Early Childhood Education](#ss) –** Five Credit Completer



**Honors ChIld and Adolescent Development**

Course: 401818 (Honors) 1 credit

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 work on the process of developing components of a working professional portfolio.

Prerequisites and other notes: This course is the first in a series of courses in two articulated completer programs, Education – Middle and High School and Early Childhood Education. It is a prerequisite to any other course~~s~~ in these programs and additional child development courses. It is open to students in grades 10-12.

**CHILD DEVELOPMENT LABORATORY**

Course: 402217 (Articulated) 1 credit

In this course, students will study children ages three to five, with the primary emphasis being placed on actual experience and observation of three and four year-old children in the preschool laboratory. Classroom and individualized study will increase knowledge of the development of children. Students will study childcare services, safety and health in the preschool, child guidance and discipline, operation of preschool, and the exceptional children.

Prerequisites and other notes: Open to students in grades 10‑12 who have completed Child and Adolescent Development. Thirty (30) hours of student Service-Learning credit may be earned. This course is part of the Early Childhood Education completer program.

**ADVANCED LABORATORY-CHILD DEVELOPMENT**

Course: 402317 (Articulated) 1 credit

This course is for students who show a special interest in child development. Advanced work is offered in areas such as childhood personality theories and behavior patterns. Emphasis is placed on expanding the students’ knowledge of careers in child development. Topics of study include preschool operation, nurturing the components of intelligence, and school readiness. The laboratory preschool will provide students with an opportunity to develop and integrate preschool learning experiences. This program is recommended for students interested in early childhood and elementary education.

Prerequisites and other notes: Child Development Laboratory. Thirty (30) hours of student Service-Learning credit may be earned. This course is part of the Early Childhood Education completer program.

**HONORS EARLY CHILDHOOD EDUCATION SEMINAR AND INTERNSHIP**

Course: 401328 (Honors) 2 credits

This is the culminating course of the Early Childhood Education completer program. Students will have an opportunity to integrate content and pedagogical knowledge in an early childhood educational setting. They will extend and apply their knowledge about the young child and teaching in a classroom setting under the supervision of a mentor teacher. Students will finalize their working portfolio and present it for review and critique.

Prerequisites and other notes: Completion of Advanced Laboratory - Child Development, 2.5 overall GPA, and 94% attendance (previous semester). This course is part of the Early Childhood Education completer program. During this course, students will take a required end of program assessment. Student transportation is the responsibility of the parent or guardian.

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**[Education – Middle and High School – Teacher Academy of Maryland](#ss)** **(TAM) –** Four Credit Completer



**Honors ChIld and Adolescent Development**

Course: 401818 (Honors) 1 credit

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 work on the process of developing components of a working professional portfolio.

Prerequisites and other notes: This course is the first in a series of courses in two articulated completer programs, Education – Middle and High School and Early Childhood Education. It is a prerequisite to any other courses in these programs and additional child development courses. It is open to students in grades 10-12.

**HONORS TEACHING AS A PROFESSION**

Course: 560318 (Honors) 1 credit

This course focuses on the profession of teaching – its history, purposes, issues, ethics, laws and regulations, role 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 working professional portfolio.

Prerequisites and other notes: Honors Child and Adolescent Development. This course is part of the Education – Middle and High School completer program.

**FOUNDATIONS OF CURRICULUM AND INSTRUCTION**

Course: 560419 (Transcripted) 1 credit

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 working professional portfolio.

Prerequisites and other notes: Honors Teaching as a Profession (may be taken concurrently). This course is part of the Education – Middle and High School completer program.

**HONORS EDUCATION ACADEMY INTERNSHIP**

Course: 560518 (Honors) 1 credit

560528 (Honors) 2 credits

This is the culminating course of the Education Academy completer program. Students will have an opportunity to integrate content and pedagogical knowledge in an educational area of interest. They will extend and apply their working portfolio and present it for review and critique.

Prerequisites and other notes: Completion of Foundations of Curriculum and Instruction. Students must have an identified content area for teaching. 2.5 overall GPA in Academic Level classes, 94% attendance (previous semester). This course is part of the Education – Middle & High School completer program. During this course, students will take an end of program assessment. Parents are responsible for all student transportation.

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**[Electrical Construction](#techcluster) –** Six Credit Completer



**ELECTRICAL CONSTRUCTION**

Course: 553437-I (Articulated) 3 credits

553637-II (Articulated) 3 credits

Students study the generation and transmission of electricity as it applies to home and commercial wiring. Practical work is performed on the installation and functions of wiring apparatus, fixtures, motors, control panels, and insulating materials. Instruction in the electrical wiring code published by the National Board of Fire Underwriters is included in this program. Students are required to pass the National Construction Career Test (NCCT) titled Core-Introductory Craft Skills to achieve Level II status in construction programs. At the end of Level II, students will take the NCCT in Electrical.

Prerequisites and other notes: These courses are part of the Electrical Construction completer program. Students are required to pass the National Construction Career Test (NCCT) titled Academic Core-Introductory Craft Skills to achieve Level II status in construction programs. Students who successfully complete the program will take the Academic Electrical Level I National Construction Career Test (NCCT).

**[Engineering](#techcluster) – Project Lead The Way –** Four Credit Completer



**PRINCIPLES OF ENGINEERING**

Course: 540119 (Transcripted) 1 credit

This course provides an overview of engineering and engineering technology. Students develop problem-solving skills with real-world engineering problems. Through theory and practical hands-on experiences, students address the emerging social and political consequences of technological change. Topics include perspectives of engineering, design process, communication and documentation, engineering systems, materials and materials testing, thermodynamics, engineering for quality and reliability, and dynamics.

Prerequisites and other notes: This course is part of the Engineering completer program. Geometry is recommended as a prerequisite or may be taken concurrently. Students can take the college level exam at the end of this course. Students who successfully complete this course and the final exam may apply for transcripted credit from Rochester Institute of Technology (RIT) and University of Maryland Baltimore County (UMBC).

**INTRODUCTION TO ENGINEERING DESIGN**

Course: 540019 (Transcripted) 1 credit

This class is a part of the Project Lead The Way Engineering Completer Program. This course emphasizes the development of a design. Students use computer software to produce, analyze, and evaluate models of project solutions. Students study the design concepts of form and function and use technology to translate conceptual design into reproducible products. Topics include application of the design process for problem-solving in a team setting, interpretation of sketches to design models, use of mass property calculations to evaluate a parametric model, and cost analysis, quality control, staffing, and packaging for product marketing.

Prerequisites and other notes: Geometry is the recommended prerequisite or may be taken concurrently. This course is part of the Engineering completer program. Students can take the college level exam at the end of this course. A math and science course is required in each year of high school. Students who successfully complete this course and the final exam may apply for transcripted credit from Rochester Institute of Technology (RIT) and University of Maryland Baltimore County (UMBC).

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**COMPUTER INTEGRATED MANUFACTURING**

Course: 557819 (Transcripted) 1 credit

This class is a part of the Project Lead The Way Engineering Program. Using solid modeling techniques, this course teaches the fundamentals of computerized manufacturing technology. Students use 3-D computer software to solve design problems. They assess their solutions through mass property analysis, modify their designs, and use prototyping equipment to produce 3-D models. The course includes computer modeling, computer numerical control, computer-aided manufacturing robotics, and the use of flexible manufacturing systems.

Prerequisites and other notes: Introduction to Engineering Design and Principles of Engineering are prerequisites Algebra II or higher is recommended as a prerequisite or may be taken concurrently. A math and science course is required in each year of high school. This course is part of the Engineering completer program. Students can take the college level exam at the end of this course. Students who successfully complete this course and the final exam may apply for transcripted credit from Rochester Institute of Technology (RIT) and University of Maryland Baltimore County (UMBC).

**DIGITAL ELECTRONICS**

Course: 558219 (Transcripted) 1 credit

This class is a part of the Project Lead The Way Engineering Program. This 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 the electronics we use on a daily basis. 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, and use appropriate components to build their designs. Topics include analog and digital fundamentals, number systems and binary addition, logic gates and functions, Boolean algebra and circuit design, decoders, multipliers, and demultipliers.

Prerequisites and other notes: Principles of Engineering, Introduction to Engineering Design, and Algebra II or higher are recommended as prerequisites or may be taken concurrently. A math and science class is required in each year of high school. This course is part of the Engineering completer program. Students can take the college level exam at the end of this course. Students who successfully complete this course and the final exam may apply for transcripted credit from Rochester Institute of Technology (RIT) and University of Maryland Baltimore County (UMBC).

**HONORS ENGINEERING DESIGN AND DEVELOPMENT**

Course: 540218 (Honors) 1 credit

This class is the capstone course of the Project Lead The Way Engineering Completer Program. Students will apply what they have learned in academic and prior Project Lead The Way courses as they complete challenging, self-directed projects. Students work in teams to design and build solutions to authentic engineering problems. A community partner engineer will mentor and consult with the teams. Students keep journals of notes, sketches, calculations, and research. Teams present final research papers and defend their projects to an expert panel.

Prerequisites and other notes: Computer Integrated Manufacturing, Digital Electronics, and Trigonometry/Pre-Calculus or higher are recommended as a prerequisite or may be taken concurrently. A math and science class is required in each year of high school. This course is part of the Engineering completer program.

[**Financial Services**](#businessoperations) **– National Academy Foundation (NAF)**

**Academy of Finance –** Six Credit Completer



**HONORS FINANCE ACADEMY I**

Course: 352518 (Honors) 1 credit

This course includes content and skills to prepare students for further studies and careers in the world of finance. Topics will include functions of market economies both domestic and international, modern securities organizations, banking, credit, and the insurance industries.

Prerequisites and other notes: Honors Accounting I is a prerequisite or may be taken concurrently. Managing Personal Finance Using Excel is a recommended prerequisite. Honors Finance Academy I is a prerequisite to the required paid summer internship that is a one of the requirements of the National Academy of Finance. This course is part of the Financial Services completer program.

**FINANCE ACADEMY II**

Course: 352419 (Transcripted) 1 credit

This course includes content and skills to prepare students for further studies and careers in the world of finance. Topics will include concepts in the areas of financial planning and international economics and finance.

Prerequisites and other notes: Accounting II is a prerequisite or may be taken concurrently. Honors Finance Academy I is a prerequisite for this course and taking an entry level college course in finance, which is one of the requirements of the National Academy of Finance. This course is part of the Financial Services completer program.

**HONORS ACADEMY OF FINANCE INTERNSHIP**

Course: 352418 (Honors) 1 credit

352528 (Honors) 2 credits

This internship is an extension of the Academy of Finance curriculum. Student knowledge and skills are further developed and challenged in a business environment. This relevant, enriching educational experience exposes the student to a broad array of workplace skills that are part of an individualized training plan.

Prerequisites and other notes: The internship may be taken following the completion of junior year classes in Academy of Finance. This class is a part of the Financial Services completer and is a requirement in order to receive a National Academy Foundation (NAF) certification.

**[Food Service and Hospitality Management](#ss) (ProStart) –** Four Credit Completer



**FOOD SERVICE PROFESSIONAL I**

Course: 402817 (Articulated) 1 credit

This course provides an introduction to the food service and hospitality industry. Students develop and demonstrate skills in safe and sanitary food handling and preparation techniques. Students learn to prepare a variety of foods and develop a broad understanding of the variety of career options available in this industry.

Prerequisites and other notes: Introduction to Foods is a prerequisite. This is the first course of a four credit career and technology education Food Service and Hospitality Management completer program. Students will have the opportunity to begin to accrue hours to meet a 400-hour internship requirement through ProStart and earn the ServSafe credential. All students enrolled in this course must take the National Restaurant Association Educational Foundation (NRAEF) Level I end-of-course exam.

**FOOD SERVICE PROFESSIONAL II**

Course: 402917 (Articulated) 1 credit

This course provides instruction on creating menus and demonstrating various types of restaurant service as students continue to prepare a variety of foods. Students will apply purchasing techniques and demonstrate an understanding of inventory monitoring and control.

Prerequisites and other notes: Food Service Professional I is a prerequisite. Principles of Business and Administration and Management is a prerequisite or may be taken concurrently. This is the second course of a four credit career and technology education Food Service and Hospitality Management completer program. Students will have the opportunity to continue to accrue hours in work-based learning. All students enrolled in this course must take the National Restaurant Association Educational Foundation (NRAEF) Level II end-of-course exam.

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**Principles of Business Administration and Management**

Course: 350417 (Articulated) 1 credit

This course provides a foundational understanding of the role of business in a global society, American business as a dynamic process, forms of business ownership, management concepts, marketing, production and distribution, and accounting and finance. Along with a brief historical perspective, business terminology and principles will be emphasized. Students will learn to analyze the functions of business through evaluating, planning, organizing, and controlling. Strong communication skills will be emphasized as necessary for success in the workplace and college. Students will think analytically; practice using teamwork for making decisions and solving problems; and apply skills for career success. Students’ understanding of the business world gained in this course will help to prepare them to meet their career and college goals and objectives.

Prerequisites and other notes: This course is one of two foundation courses that are required for all business education completer programs. It is recommended for 10th grade students.

**HONORS PROSTART INTERNSHIP**

Course: 402608 (Honors) ½ credit

402618 (Honors) 1 credit

402628 (Honors) 2 credits

Students will have the opportunity to integrate content and knowledge of food service and hospitality through an individualized training plan. Student knowledge will be extended through practical application under the supervision of food service and hospitality professionals

Prerequisites and other notes: Completion of Food Service Professional II and Principles of Business Administration and Management. This is the culminating course in a 4 credit completer program. To earn ProStart certification, students must complete a total of 400 hours in internships. Student transportation is the responsibility of the parent or guardian.



**[HOMELAND SECURITY AND EMERGENCY PREPAREDNESS](#ss) - CRIMINAL JUSTICE/LAW ENFORCEMENT – Four Credit Completer**

**FOUNDATIONS OF HOMELAND SECURITY AND EMERGENCY PREPAREDNESS**

Course: 540617 (Articulated) 1 credit

Homeland security and emergency preparedness guidelines, concepts, and action plans are key concepts in this course. Emphasis will be placed on unique aspects of public safety and public health. Various methodologies for intelligence gathering and dissemination will be examined. Students will identify various local, state, and federal assets and prepare an action plan that includes initial notification, emergency response (on and off scene), and recovery.

Prerequisites and other notes: This course is the foundation course for both options in the Homeland Security and Preparedness completer program.

**HONORS Administration of Justice I**

Course: 540518 (Honors) 1 credit

This class will introduce students to multiple aspects of criminal justice and law enforcement. Students will explore the criminal process, various forces that impact law enforcement, and the rights of citizens. Students will understand the difference between juvenile and adult justice, and classifications of different crimes. This class will give students a general knowledge needed for students to enter various law enforcement careers at the federal, state, and local levels.

Prerequisites and other notes: Foundations of Homeland Security and Emergency Preparedness is a prerequisite or may be taken concurrently. This course is a part of the Criminal Justice/Law Enforcement option in the Homeland Security and Emergency Preparedness completer program.

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**ADMINISTRATION OF JUSTICE II**

Course: 540419 (Transcripted) 1 credit

This class will expand upon students’ knowledge of criminal justice and law enforcement. Students will be introduced to evidence collection, analysis, and forensic examination. The role of law enforcement officials as a first responder will also be discussed as well as the duties of police officers. Students will explore a range of careers in law enforcement.

Prerequisites and other notes: Administration of Justice I is a prerequisite or may be taken concurrently. This course is a part of the Criminal Justice/Law Enforcement option in the Homeland Security and Emergency Preparedness completer program.

**Homeland Security and Emergency Preparedness Capstone**

Course: 541319 (Transcripted) 1 credit

This is the final course in the Homeland Security and Emergency Preparedness completer. Students will apply the knowledge and skills acquired in previous courses in authentic ways to complete an individualized senior project. The project will involve intense problem-solving and research in a student selected career-focused area. Experiences may include but are not limited to research projects, extensive portfolios and work-based learning opportunities. Projects and portfolios will be presented for review and critique.

Prerequisites and other notes: This is the capstone course in all Homeland Security and Emergency Preparedness completer programs. All courses in the option’s course sequence are prerequisites.

[**Homeland Security and Emergency Preparedness**](#ss) **– GEOGRAPHIC INFORMATION SYSTEMS AND TECHNOLOGY – Four Credit Completer**



**FOUNDATIONS OF HOMELAND SECURITY AND EMERGENCY PREPAREDNESS**

Course: 540617 (Articulated) 1 credit

Homeland security and emergency preparedness guidelines, concepts, and action plans are key concepts in this course. Emphasis will be placed on unique aspects of public safety and public health. Various methodologies for intelligence gathering and dissemination will be examined. Students will identify various local, state, and federal assets and prepare an action plan that includes initial notification, emergency response (on and off scene), and recovery.

Prerequisites and other notes: This course is the foundation course for both options in the Homeland Security and Preparedness completer program.

**SPATIAL TECHNOLOGY AND REMOTE SENSING (S.T.A.R.S.) COURSE 1 AND 2**

Course: 541117 (Articulated) 1 credit

This class will introduce students to Geographic Information System (GIS) and Remote Sensing (RS) technology through academic study and applied instruction. This course provides the foundation of the *STARS Entry-Level GIS Technician Certification*. Teachers and students will use a locally customized Geographic Information System (GIS) to learn about their local community. They will use the same data, imagery and software that NASA uses to study their state, county and school. Students will also learn the skills required to work on and/or build a Geographic Information Systems/Remote Sensing project. Through hands-on instruction students will learn skills ranging from introductory digital mapping to image analysis. In this course students are introduced to each skill with a real world application and led in the problem solving process. Follow-up applied practice application will direct the student to apply acquired skills to cases in the local community using the supplied data.

Prerequisites and other notes: Foundations of Homeland Security and Emergency Preparedness is a prerequisite or may be taken concurrently. This course is a part of the Geographic Information Systems and Technology option in the Homeland Security Emergency Preparedness completer program.

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**SPATIAL TECHNOLOGY AND REMOTE SENSING (S.T.A.R.S.) COURSE 3 AND 4**

Course: 541217 (Articulated) 1 credit

This course will provide students with skills required to work on and/or build a Geographic Information Systems/Remote Sensing project.  Through hands-on instruction students will learn to apply skills ranging from introductory digital mapping to image analysis.    Students will learn and apply Spatial Analyst and 3D Analyst.  Students will also learn methods of integrating external hardware in order to incorporate real time data from GPS units in order to accurately survey a community.  Students will choose final projects designed to apply geospatial skills.

Prerequisites and other notes: Spatial Technology and Remote Sensing Course 1 and 2 are a prerequisite. This course is part of the Geographic Information Systems and Technology completer program. Students are required to take the STARS certification assessment.

**Homeland Security and Emergency Preparedness Capstone**

Course: 541317 (Articulated) 1 credit

This is the final course in the Homeland Security and Emergency Preparedness completer. Students will apply the knowledge and skills acquired in previous courses in authentic ways to complete an individualized senior project. The project will involve intense problem-solving and research in a student selected career-focused area. Experiences may include but are not limited to research projects, extensive portfolios and work-based learning opportunities. Projects and portfolios will be presented for review and critique.

Prerequisites and other notes: This is the capstone course in all Homeland Security and Emergency Preparedness completer programs. All courses in the option’s course sequence are prerequisites.

**[HVAC: Heating, Ventilation, Air Conditioning and Refrigeration](#techcluster) –** Six Credit Completer



**HVAC: HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION**

Course: 550537-I (Articulated) 3 credits

550737-II (Articulated) 3 credits

This course is designed to give students basic knowledge and skill in the development of the principles and practices of the air conditioning and refrigeration trade. This course will include the following: sizing equipment, duct layout, installation, repair and maintenance of oil, gas, electric and heat pump forced‑air heating systems. Also residential and commercial air conditioning and light commercial refrigeration units are included. Students will learn the proper use and care of tools, parts and test equipment, and how to analyze, adjust, troubleshoot and test such systems. Related study will include math, measuring instruments, blueprint reading, basic electricity, motors, and instruction to trade occupations. Students are required to pass the National Construction Career Test (NCCT) titled Core-Introductory Craft Skills to achieve Level II status in construction programs.

Prerequisites and other notes: These courses are part of the HVAC completer program. Students are required to pass the National Construction Career Test (NCCT) titled Academic Core-Introductory Craft Skills to achieve Level II status in construction programs. At the end of Level II, students will take the NCCT Academic in HVAC exam and EPA certification.

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[**Heavy Equipment and Truck Technology**](#techcluster) **–** Six Credit Completer



**HEAVY EQUIPMENT AND TRUCK TECHNOLOGY**

Course: 558237-I (Articulated) 3 credits

558337-II (Articulated) 3 credits

In Heavy Equipment and Truck Technology, students will develop the knowledge and skills necessary to take the ASE Medium/Heavy Truck Technician exams for Suspension & Steering, Brakes, Preventive Maintenance, Diesel Engines and Electrical/Electronics. Students develop diagnostic, technical, and academic skills through classroom instruction and hands-on applications. Through the theory and real-world experiences, students master the concepts and the ability to identify and perform necessary repair tasks utilizing the latest techniques and applications on a variety of equipment and Class 4 through Class 8 trucks and tractors. In addition, this course will address personal and environmental safety practices associated with clothing, respiratory protection, eye protection, entry level medium/heavy truck service technology principles and practices, hand tools, power tools/equipment, safety principles, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulations. At the end of the program, students take Automotive Service Excellence (ASE) Certification Tests (or approved end of course assessments) for Diesel Engines, Suspension & Steering, Brakes, Electrical/Electronic Systems, and Preventative Maintenance Inspection.

Prerequisites and other notes: These courses are part of the Heavy Equipment & Truck Technology completer program. At the end of the program, students are required to take an end of course assessment - Heavy Equipment Maintenance and Repair.

**[Applied Mechanical Engineering](#techcluster) –** Six Credit Completer



**APPLIED MECHANICAL ENGINEERING**

Course: 559437-I (Articulated) 3 credits

559537-II (Articulated) 3 credits

This program prepares students for a beginning career as a machinist, production operator, quality control technician, or manufacturing engineering technologist in the computer-enhanced manufacturing environment. The program focuses heavily on hands-on experiences using industrial tools and advanced computer numerically controlled (CNC) equipment. Machinists use their knowledge and understanding of metals and their skills with tools to design, plan, and carry out the processes needed to make products with precise specifications. An engineering technologist works closely with engineers to design, develop, and test industrial and consumer products by applying mathematics and science. Students will learn about workplace safety, teamwork, metallurgy,

computer aided manufacturing software, robotics, control systems, project management, fabrication, lean manufacturing, and quality assurance. Throughout the course, students will work toward specific certifications from the National Institute of Metalworking Skills (NIMS).

Prerequisites and other notes: These courses are part of the Applied Mechanical Engineering completer program. At the end of this program, students will take the NIMS Measurement, Materials, and Safety, Job Planning, Bench Work and Layout exam. (Other tests optional for qualified students.)

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**[Masonry](#techcluster) –** Six Credit Completer



**MASONRY**

Course: 555437‑I (Articulated) 3 credits

555637‑II (Articulated) 3 credits

This program provides training in the skills necessary to lay brick, block, veneer, and dry-stack stone, flagstone, ceramic tile, and some concrete work. Layout work, bonds, patterns, blueprint reading, estimating, reinforced masonry, and specifications are also studied. Training is structured according to local requirements and is designed to prepare the student for gainful employment as an advanced apprentice.

Prerequisites and other notes: These courses are part of the Masonry completer program. Students are required to pass the National Construction Career Test (NCCT) titled Academic Core-Introductory Craft Skills to achieve Level II status in construction programs. At the end of Level II, students will take the NCCT Academic Level I in Masonry.

**[Print Production](#art) –** Four Credit Completer



**PRINT PRODUCTION**

Course: 553937 (Articulated) 3 credits

Students learn the basic skills needed for a career in printing or graphic design. Students use Adobe Illustrator, Adobe Photoshop, and Adobe InDesign software to prepare publications. Design, layout, prepress, press, digital file prep, binding, and finishing is the focus. Students design products such as packages, advertisements, logos, booklets, books, brochures, and signs.

Prerequisites and other notes: Graphic Communications (1 credit) or Honors Commercial Art (1 credit). This course is part of the Print Production completer program. At the end of the program, students are required to take the PrintED exams titled Graphic Communications and Digital File Preparation/Digital Rile Output.

**GRAPHIC COMMUNICATIONS**

Course: 455316 (Academic) 1 credit

Graphic communication systems include the design, layout, and production of visual messages. Students will use scanners, computer software, digital cameras, and original artwork to create professional posters, brochures, books, packages, and advertising materials. Students will learn about typography, design elements, electronic prepress, color management, and binding techniques. This course is for all students interested in graphic design, computer graphics, commercial art, publishing, and printing.

Prerequisites and other notes: Graphic Communications is part of the Print Production and Video Production completer programs. This course is offered at the comprehensive high schools.

**[Textiles and Fashion Careers –](#art)** Six Credit Completer



**TEXTILES AND FASHION CAREERS**

Course: 554237-I (Articulated) 3 credits

554437-II (Articulated) 3 credits

This course provides students with an opportunity to experience a variety of opportunities and practice skills in the textiles and fashion career areas. Students will participate in learning activities associated with fashion design, pattern making, textiles design, garment construction, fashion merchandising, interior design, upholstery, and retail careers. Special attention will be given to graphic design software and use of computer-aided design to create flat patterns and fashion designs.

Prerequisites and other notes: These courses are part of the Textiles & Fashion Careers completer program.

**[Video Production](#art) –** Four Credit Completer



**VIDEO PRODUCTION**

Course: 559337 (Articulated) 3 credits

Students learn the basic skills for a career in television or corporate video production. Topics covered include lighting and sound for video, video graphics, animation, and script writing.

Prerequisites and other notes: Graphic Communications, Honors Commercial Art, or Script Writing and Video Production. This course is part of the Video Production completer programs.

**GRAPHIC COMMUNICATIONS**

Course: 455316 (Academic) 1 credit

Graphic communication systems include the design, layout, and production of visual messages. Students will use scanners, computer software, digital cameras, and original artwork to create professional posters, brochures, books, packages, and advertising materials. Students will learn about typography, design elements, electronic prepress, color management, and binding techniques. This course is for all students interested in graphic design, computer graphics, commercial art, publishing, and printing.

Prerequisites and other notes: Graphic Communications is part of the Print Production and Video Production completer programs. This course is offered at the comprehensive high schools.

**SCRIPT WRITING AND VIDEO PRODUCTION**

Course: 850116 (Academic) 1 credit

This course is designed to foster media/communications literacy and fluency by engaging students in the pre-production, research, production, and post-production cycle of video production. Students will learn the basic elements of digital imaging, sound, and digital video while learning the techniques and style for writing scripts. During the course, students will have an opportunity to demonstrate writing, performing, and producing skills in order to create a video product.

Prerequisites and other notes: Script Writing and Video Production is part of the Video Production completer program. This course is offered at the comprehensive high schools.

**[Welding Technology](#techcluster) –** Six Credit Completer



**WELDING TECHNOLOGY**

Course: 559037‑I (Articulated) 3 credits

559137‑II (Articulated) 3 credits

This program is a study and application of the process in which metal is melted and fused together by heat producing methods. The program is designed to train students in the basic knowledge and skills of the welding trade. Instruction will focus on using oxyacetylene, electric arc, TIG (Tungsten Inert Gas), MIG (Metal Inert Gas), and CNC (Computer Numerically Controlled) robotic plasma cutting equipment. Brazing, soldering, cutting, hard surfacing, and job fabrication from sketches and blueprints are covered. Individual and group projects are undertaken.

Prerequisites and other notes: These courses are part of the Welding Technology completer program. Students are required to pass the National Construction Career Test (NCCT) titled Academic Core-Introductory Craft Skills to achieve Level II status in construction programs. At the end of Level II, students will take the Amer~~i~~can Welding Society (AWS) certification tests.

**FAMILY AND CONSUMER SCIENCES**

**Honors ChIld and Adolescent Development**

Course: 401818 (Honors) 1 credit

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 work on the process of developing components of a working professional portfolio.

Prerequisites and other notes: This course is the first in a series of courses in two articulated completer programs, Education – Middle and High School and Early Childhood Education. It is a prerequisite to any other course~~s~~ in these programs and additional child development courses. It is open to students in grades 10-12.

**CHILD DEVELOPMENT LABORATORY**

Course: 402217 (Articulated) 1 credit

In this course, students will study children ages three to five, with the primary emphasis being placed on actual experience and observation of three and four year-old children in the preschool laboratory. Classroom and individualized study will increase knowledge of the development of children. Students will study childcare services, safety and health in the preschool, child guidance and discipline, operation of preschool, and the exceptional children.

Prerequisites and other notes: Open to students in grades 10‑12 who have completed Honors Child and Adolescent Development. Thirty (30) hours of student service-learning credit may be earned. This course is part of the Early Childhood Education completer program.

**ADVANCED LABORATORY-CHILD DEVELOPMENT**

Course: 402317 (Articulated) 1 credit

This course is for students who show a special interest in child development. Advanced work is offered in areas such as childhood personality theories and behavior patterns. Emphasis is placed on expanding the students’ knowledge of careers in child development. Topics of study include preschool operation, nurturing the components of intelligence, and school readiness. The laboratory preschool will provide students with an opportunity to develop and integrate preschool learning experiences. This program is recommended for

students interested in early childhood and elementary education.

Prerequisites and other notes: Child Development Laboratory. Student will have the opportunity to earn thirty (30) service-learning hours during this course. This course is part of the Early Childhood Education completer program.

**INTRODUCTION TO FOODS**

Course: 402506 (Academic) ½ credit

This course is designed to help students analyze how knowledge and skills related to nutrition and food affect the well-being of individuals, family and society. Key concepts include food selection, composition and nutrition, meal planning, food preparation, safety and sanitation, current and emerging technology, resource management and career exploration. Students will make decisions and solve problems related to food choices through critical and creative thinking and apply techniques of successful food preparation.

**ADVANCED FOODS**

Course: 403306 (Academic) ½ credit

Advanced Foods is a course that focuses on managing meals, using consumer information and resources to understand and evaluate food trends, and developing an in-depth knowledge of food selection and preparation. Its sociocultural perspective examines both United States regional foods and the intercultural cuisines of the world. Students will extend knowledge and skills and strive to increase personal food literacy.

Prerequisites and other notes: Introduction to Foods.

**FLOWER DESIGN**

Course: 405606 (Academic) ½ credit

Students demonstrate and practice the elements and principles of design as they create a variety of projects using live materials as well as fabric, dried, and pressed flowers. Basic supplies for learning each technique will be supplied; however, project expense will be the responsibility of each student.

Prerequisites and other notes: Flower Design may be repeated for up to 2 credits.

**FINANCIAL LITERACY**

Course: 406106 (Academic) ½ credit

Financial Literacy is a course based on national standards in economics and personal finance that is designed as part of the transition from high school into the adult world and independent living. Through the use of the decision-making process, active learning, and reflection, students will gain knowledge and skills in the areas of income, money management, consumer rights and

responsibilities, spending, credit, saving, and investing.

Prerequisites and other notes: This course meets the graduation requirement in Financial Literacy. This course is open to 11th and 12th grade students only.

**INDEPENDENT STUDY - FAMILY AND CONSUMER SCIENCES**

Course: 406806 (Academic) ½ credit

406816 (Academic) 1 credit

This course is designed for the student who has satisfactorily completed all the courses offered in a specific area of study and who wishes to work independently to acquire further knowledge and skills. The student will be responsible for establishing and executing a project contract with the direction of the advising teacher. This contract will specify required work and detailed project plans.

Prerequisites and other notes: Permission of the instructor and approval of the principal are required.

**ENGLISH LANGUAGE ARTS**

**Suggested Course Sequence**

|  |  |  |  |
| --- | --- | --- | --- |
| Grade 9 | Grade 10 | Grade 11 | Grades 12 |
| * English 9 * Electives | * English 10 * Electives | * English 11 * AP English Language and Composition * Electives | * English 12 * AP English Language and Composition * AP English Literature and Composition * Electives |

**English 9** 🏋

Course: 050111 (Basic) 1 credit

050116 (Academic) 1 credit

**Honors English 9** 🏋

Course: 050018 (Honors) 1 credit

The outcomes of this course are aligned with the Maryland College and Career-Ready Standards. Students develop reading, writing, language, listening, and speaking skills through integrated instructional approaches using informational and literary texts. Integrated instructional approaches include a focus on active reading, process writing, academic vocabulary, and grammatical structures. Through integrated and collaborative activities, students learn to respond to a text, compose in a variety of modes, control language, and evaluate the content, organization, and language use of texts. This course fulfills one credit of the State graduation requirements in English.

**English 10** 🏋

Course: 050211 (Basic) 1 credit

050216 (Academic) 1 credit

**Honors English 10** 🏋

Course: 050218 (Honors) 1 credit

The outcomes of this course are aligned with Maryland College and Career-Ready Standards. Students will master the skills of reading, writing, language, listening, and speaking skills introduced in English 9. The course will continue its focus on integrated instructional approaches and will include collaborative activities. This course fulfills one credit of the State graduation requirements in English.

Prerequisites and other notes: English 9

**English 11** 🏋

Course: 050416 (Academic) 1 credit

**HONORS ENGLISH 11** 🏋

Course: 050418 (Honors) 1 credit

The outcomes of this course are aligned with the Maryland College and Career-Ready Standards. Learning activities include a variety of response methods to print and non-print media which help students to extend and refine creative, research, and critical analysis strategies. Students explore in depth the devices authors use to reveal literal and metaphorical meaning, and to achieve purpose and effect. Students learn how to use and recognize language which effectively communicates experiences, ideas, and opinions and to appreciate the value of their own and others’ personal experiences and the validity of drawing upon them for inspiration and learning. Students learn a variety of rhetorical strategies to use in writing academic essays and work to achieve academic competence in clarity, coherence, unity, organization, diction, and language use. This course fulfills one credit of the State graduation requirements in English.

Prerequisites and other notes: English 10

**ENGLISH 12** 🏋

Course: 050511 (Basic) 1 credit

050516 (Academic) 1 credit

**HONORS ENGLISH 12** 🏋

Course: 050518 (Honors) 1 credit

The outcomes of this course are aligned with the Maryland College and Career-Ready Standards. Students learn to respond to and write on literal and interpretative levels from a variety of initial perspectives that focus on the techniques authors use to manipulate the effect of text. In addition, students will learn a variety of rhetorical strategies for writing academic and research essays, including timed responses. Students will also achieve competence in academic language usage resulting in greater clarity, coherence, and unity in their writing and speaking. This course fulfills one credit of the State graduation requirements in English. Students in basic and academic level classes will also have additional learning experiences that will prepare them for a college and career readiness re-assessment.

Prerequisites and other notes: English 11

**AP LANGUAGE AND COMPOSITION** 🏋

Course: 052919 (AP) 1 credit

AP Language and Composition is a college-level course designed to engage students in independent and collaborative learning activities that will help them to gain academic proficiency in rhetorical analysis and evaluation, reading, writing, research, and linguistics. Learning activities focus upon writing timed responses to a variety of language related selections and topics. Students work to achieve style in essays that are rhetorically sound and that achieve a high degree of linguistic accuracy. Students explore the following topics in depth: strategies of persuasion and argumentation; linguistic theory, philosophy, and history; methods of grammatical analysis; and the relationships among logic, reading, writing, and thinking. Students are encouraged to sit for the College Board’s Advanced Placement English Language and Composition Examination. This course fulfills one credit of the State graduation requirements in English.

Prerequisites and other notes: Students must completeEnglish 10 prior to enrollment in AP Language and Composition.

**AP LITERATURE AND COMPOSITION** 🏋

Course: 052819 (AP) 1 credit

AP Literature and Composition is a college-level course designed to engage students in independent and collaborative learning activities that will help them to gain academic proficiency in critical analysis and evaluation, reading, writing, and research. Learning activities focus upon writing timed critical responses to a variety of literary selections and topics. Students work to achieve style in

essays that are rhetorically sound and that achieve a high degree of linguistic accuracy. Students explore in depth the devices authors

use to reveal literal and metaphorical meaning, and to achieve purpose and effect. Students are encouraged to sit for the College Board’s Advanced Placement English Literature and Composition Examination**.** This course fulfills one credit of the State graduation requirements in English.

Prerequisites and other notes: Students must complete English 11 or AP Language and Composition prior to enrollment in AP Literature and Composition.

**CREATIVE WRITING** 🏋

Course: 053606 (Academic) ½ credit

Creative Writing requires students to improve their writing, speaking, reading, listening, language, and literature skills. Students will learn how to use language which effectively communicates experiences, ideas, and emotions. Students will learn to appreciate the value of their personal experiences and the validity of drawing upon them for inspiration and meaning. Students will learn how language gives meaning and structure to an ever changing world. This course may not be used to meet the State graduation requirements in English.

**MYTHOLOGY** 🏋

Course: 056906 (Academic) ½ credit

Students explore the myths from various cultures. Students participate in collaborative learning activities to understand how the myths are reflected in the literature, customs, architecture, and religion of the ancient and modern cultures. Students will continue to develop reading and writing skills, as well as critical and creative thinking skills and strategies. This course may not be used to meet the State graduation requirements in English.

**PUBLIC SPEAKING** 🏋

Course: 057606 (Academic) ½ credit

Public Speaking offers students activities and experiences that help to develop skills in oral communication, critical thinking, accessing information, and writing. Students understand and use the stages of speaking for a variety of purposes, including personal, career, and social. Emphasis is on achieving clarity and confidence when speaking to others. This course may not be used to meet the State graduation requirements in English.

**HONORS FILM AND LITERATURE**

Course: 053008 (Honors) ½ credit

This honors level English elective course is designed to provide students with an overview of the history of film, the devices and techniques that filmmakers use to create meaning, the process of filmmaking, and the transformation of literature into film. While emphasis will naturally be given to the critical study of film, students will also analyze selected literary works which have made the print-to-cinema transition for a better understanding of literary and cinematic rhetorical strategies and techniques. Assessment activities may include creative writing and critical writing activities, research projects, and the creation of original cinematic works of various lengths and genres. This course may not be used to meet the State graduation requirements in English.

Prerequisites and other notes: Successful completion of English 9.

**HONORS HUMANITIES** 🏋

Course: 057208 (Honors) ½ credit

Students learn the aesthetic and philosophical aspects of western culture as revealed in its art, music, and literature. Students continue to develop reading and writing skills, as well as critical and creative thinking skills and strategies. This course may not be used to meet the State graduation requirements in English.

Prerequisites and other notes: Successful completion of English 9.

**YEARBOOK PRODUCTION**

Course: 082116 (Academic) 1 credit

**HONORS YEARBOOK PRODUCTION**

Course: 082018 (Honors) 1 credit

Yearbook Production provides students with journalistic skills and the ability to apply those skills to actual yearbook production. Units of study include: concept, thematic development, section development, reporting and writing, headlines, photos and captions, design, graphics, customer service, and business management. This course may not be used to meet the state graduation requirement in English.

Honors Yearbook Production is an advanced course designed for yearbook editors and business managers. These leaders will organize and maintain the yearbook ladder, supervise daily production, maintain and oversee a coverage calendar, promote campaigns, record and organize book and ad sales, facilitate ad sales with both businesses and parents, coordinate portrait schedules and picture collection, act as liaison between staff members and advisor.

Prerequisites and other notes: Ten (10) service-learning hours for ½-credit course and twenty (20) service-learning hours for 1-credit course may be earned. Academic - Enrollment in the course is dependent upon completion of a yearbook application. Honors - Successful completion of Yearbook Production as well as recommendation of the yearbook advisor are prerequisite.

**LITERACY**

Course: 050711 (Basic) 1 credit

This course focuses on basic reading skills, functional reading, vocabulary and comprehension skills. Entrance to this class should be on an assigned basis.

Prerequisites and other notes: This course may not be used to meet the State graduation requirements in English. This course may be repeated for credit.

**HONORS INDEPENDENT STUDY - ENGLISH**

Course: 058108 (Honors) ½ credit

058118 (Honors) 1 credit

Independent Study allows students to work independently in any area relevant to English. Major emphasis is on research. Work is done during the student's unassigned time and under the direction of a faculty advisor. Regularly scheduled conferences occur at least once a week. Students register only on the recommendation of their teacher, school counselor, and principal. This course may not be used to meet the State graduation requirements in English.

Prerequisites and other notes: Permission of the instructor and approval of the principal are required.

**FINE ARts**

**Completed credit in any Fine Arts course may be applied to the Fine Arts Graduation requirements unless otherwise indicated.**

**ART**

**Suggested Course Sequence**

|  |  |  |  |
| --- | --- | --- | --- |
| Grade 9 | Grade 10 | Grade 11 | Grade 12 |
| * Art I | * Art II: Two and Three Dimension Art | * Honors Level Art Elective courses | * Honors Level Art courses or Advanced Placement Art courses |
| * Honors Art I | * Honors Level Art Elective courses | * Honors Level Art courses or Advanced Placement Art courses | * Honors Level Art courses or Advanced Placement Art courses |

**ART I**

Course: 600016 (Academic) 1 credit

Art I is open to all high school students interested in taking art for the first time. Art I is the first course in a sequence of art offerings. This course introduces the students to studio art, art criticism, aesthetics, and arts historical and social context. A review of the art elements and principles of design are the starting point of this course. Studio Experiences will be addressed through four major units of study: Introduction; Elements and Principles; Creative Expression; and Visual Culture. Students may be required to purchase sketchbooks. Basic supplies for learning each technique will be supplied; however, the expense of more advanced materials, if desired, will be the responsibility of each student.

Honors Art I is open to all high school students who have a desire to develop artistic skills and communicate visually beyond the foundational level. This course will provide opportunities for students to apply depth of skill, study, and critique artistic styles and trends, as well as apply knowledge gained in their own work. Emphasis is placed on working from observation using drawing, painting, and 3-D Media while incorporating imaginative ideas and personal style. Students in this course are expected to maintain a sketchbook and begin developing a portfolio of work with a desire to advance in Honors Art courses leading to advanced placement studio art.

Prerequisites and other notes: This course is a prerequisite to Art II: Two and Three Dimension Art. Course 600206 may be taken at Gateway only and may be taken for repeat credit. Students in Honors Art I should expect some financial responsibility for advanced art materials.

**ART II: TWO AND THREE DIMENSION ART**

Course: 600616 (Academic) 1 credit

Two and Three Dimension Art is designed to extend the concepts introduced in Art I through additional studio experiences. This course stresses the development of artistic skills and knowledge, and the application to a student's own art work and self‑expression. This course has been designed to link artists and exemplars of Art I with newly presented artists, art works, and the cultures that produced them for in‑depth study. Emphasis is placed on drawing, printmaking, painting, design, and three‑dimensional art. Students will be encouraged to use critical and aesthetic thinking skills in designing works of art and developing personal criteria for assessing them. Review of the Elements of Art and Principles of Design will enhance the production of expressive student art work. Teachers will assign drawing activities throughout the course for homework. Students may be required to purchase sketchbooks. Basic supplies for learning each technique will be supplied; however, the expense of more advanced materials, if desired, will be the responsibility of each student.

Prerequisites and other notes: Successful completion of Art I (or permission of the instructor) is a prerequisite.

**INDEPENDENT STUDY ‑ ART**

Course: 604206 (Academic) ½ credit

604216 (Academic) 1 credit

**HONORS INDEPENDENT STUDY - ART**

Course: 604208 (Honors) ½ credit

604218 (Honors) 1 credit

Students with exceptional skills in art may select to study in an area of advanced work. This may include activities in studio, ceramics, commercial art, jewelry design, art history or any other mutually agreed upon area.

Prerequisites and other notes: Successful completion of Art II: Two and Three Dimension Art or Honors Art I. At least one honors level art elective as a prerequisite is required for Honors Level. Permission of Instructor and approval of the principal are required.

**HONORS CERAMICS**

Course: 603018 (Honors) 1 credit

Ceramics is designed for the student who would like to further his/her interest in the various aspects of pottery construction and design. The course will include hand‑building techniques, kiln firing procedures, instruction on the potter's wheel, mold‑making, clay preparation, and art appreciation. The course is intended to give the interested student an in‑depth study of the potter's art. Successful completion of this course will develop the student’s foundation portfolio in preparation for Advanced Placement Studio

Art. Students should expect some financial responsibility for advanced art materials.

Prerequisites and other notes: Successful completion of Art II: Two and Three Dimension Art, or Honors Art I, or recommendation of the art instructor is a prerequisite.

**HONORS COMMERCIAL ART**

Course: 601218 (Honors) 1 credit

Commercial Art is an upper level art course which focuses on the application of art in commercial fields and introduces career opportunities for the commercial artist. Students learn the basic concepts of layout and visual communication. They learn lettering and illustration skills to create well-designed visual products. The role of technology and electronic imagery is integrated within the curriculum. Successful completion of this course will develop the student’s foundation portfolio in preparation for Advanced Placement Studio Art. Students should expect some financial responsibility for advanced art materials.

Prerequisites and other notes: Successful completion of Art II: Two and Three Dimension Art, or Honors Art I, or recommendation of the art instructor is a prerequisite. This course is part of a completer program which articulates with Carroll Community College and the Art Institute of Washington.

**HONORS DRAWING**

Course: 610008 (Honors) ½ credit

Drawing I is specifically designed for the advanced art student. It explores the elements of lines on a college level. Students will study concepts involving positive and negative approaches toward line, rendering, photo-realism, progressive composition, and the effects of light and shadow on form. Portrait studies, landscapes, still life and object rendering will be examined at great length. A variety of drawing tools will be explored such as pastels, charcoal, pen and ink, colored pencils, crayons, and drawing pencils. This course will benefit those who wish to develop their skills in drawing that are necessary for success in the studio or workplace. Students will have

the opportunity to build a portfolio of two-dimensional artwork (useful to college or art school admission). Successful completion of this course will develop the student’s foundation portfolio in preparation for Advanced Placement Studio Art. Students should expect some financial responsibility for advanced art materials.

Prerequisites and other notes: Successful completion of Art II: Two and Three Dimension Art, or Honors Art I, or recommendation of the art instructor is a prerequisite.

**HONORS DIGITAL DESIGN IN PHOTOGRAPHY**

Course: 601318 (Honors) 1 credit

Honors 2-D Digital Design is an upper level art course which focuses on the creation of a digital design and photography portfolio. Photography will be presented through historical and contemporary examples. Various traditional and non-traditional photo processes will be experienced. Digital photography principles including camera operation, composition, lighting, and personal expression through photography will be explored. Art elements and design principles will be demonstrated in a digital format. Photo manipulation and software will be presented to assist students in enhancing and/or manipulating photographs. Students should expect some financial responsibility for advanced art materials.

Prerequisites and other notes: Successful completion of Art II: Two and Three Dimension Art, or Honors Art I, or recommendation of the art instructor is a prerequisite.

**HONORS MIXED MEDIA**

Course: 602418 (Honors) 1 credit

Mixed Media is intended for students who wish to extend experiences in three-dimensional art processes such as sculpture using a variety of media. Students will create individual projects using clay, wood, metal or other appropriate materials. Sculptural skills learned in Ceramics and in Two and Three Dimensional Art will be employed in the production of artwork.

Successful completion of this course will develop the student’s foundation portfolio in preparation for Advanced Placement Studio Art. Students should expect some financial responsibility for advanced art materials.

Prerequisites and other notes: Successful completion of Art II: Two and Three Dimension Art, or Honors Art I, or recommendation of the art instructor is a prerequisite.

**HONORS PAINTING**

Course: 611008 (Honors) ½ credit

Painting I is designed for advanced art students wishing to refine their painting skills. A wide variety of techniques for using watercolor, tempera, and acrylics will be explored. Application of paint, composition, and color theory will be discussed. This course will allow students to build a portfolio of painted work. Successful completion of this course will develop the student’s foundation portfolio in preparation for Advanced Placement Studio Art. Students should expect some financial responsibility for advanced art materials.

Prerequisites and other notes: Successful completion of Art II: Two and Three Dimension Art, or Honors Art I, or recommendation of the art instructor is a prerequisite.

**HONORS STUDIO ART**

Course: 601818 (Honors) 1 credit

Studio Art emphasizes personal development in the fine arts. Students will continue experiences in drawing, painting, sculpture, printmaking and processes. Concepts of critical and aesthetic thinking skills learned in previous art courses will be applied to exemplar works and to students’ own art works. Students will be encouraged to use these skills in assessment of their own works. Studio Art is intended for students who exhibit a strong interest in art and wish to extend their skills and knowledge. Drawing activities will be assigned as homework throughout the course. Successful completion of this course will develop the student’s foundation portfolio in preparation for Advanced Placement Studio Art. Students should expect some financial responsibility for advanced art materials.

Prerequisites and other notes: Successful completion of Art II: Two and Three Dimension Art, or Honors Art I, or recommendation of the art instructor is a prerequisite.

**AP STUDIO ART: DRAWING**

Course: 601419 (AP) 1 credit

This course enables students to prepare a portfolio for submission to the AP Studio Drawing Exam. AP Studio Art develops the personal commitment to visual expression through rigorous problem-solving and demonstration of material and concept mastery. Each of the portfolios asks the student to demonstrate a depth of investigation and process of discover through the concentration section (Section

II). In the breadth section (Section III), the student is asked to demonstrate a serious grounding in visual principles and material techniques. The quality section (Section I) permits the student to select the works that best exhibit a synthesis of form, technique, and content. This course provides students with the means to construct a college-level visual art portfolio in accordance with MSDE learner outcomes and advanced placement Studio Art standards. Focus will include drawing, 2-D design, and 3-D design. Students are encouraged to submit for the College Board’s Advanced Placement Studio Art examination. Students should expect some financial responsibility for advanced art materials. AP Studio Drawing is designed to address a very broad interpretation of drawing issues and media. Students will explore light and shade, line quality, rendering of form, composition, surface manipulation, and illusion of depth as drawing issues that may be addressed through a variety of means, which could include painting, printmaking and mixed media. Abstract as well as observational works may also be explored to demonstrate drawing competency.

Prerequisites and other notes: Successful completion of one of the Honors Level Art Electives or recommendation of the art instructor is a prerequisite.

**AP STUDIO ART: 3D DESIGN**

Course: 601519 (AP) 1 credit

This course enables students to prepare a portfolio for submission to the AP Studio 3D Design Exam. AP Studio Art develops the personal commitment to visual expression through rigorous problem-solving and demonstration of material and concept mastery. Each of the portfolios asks the student to demonstrate a depth of investigation and process of discovery through the concentration section (Section II). In the breadth section (Section III), the student is asked to demonstrate a serious grounding in visual principles and material techniques. The quality section (Section I) permits the student to select the works that best exhibit a synthesis of form, technique, and content. This course provides students with the means to construct a college-level visual art portfolio in accordance with MSDE learner outcomes and advanced placement Studio Art standards. Students are encouraged to submit for the College Board’s Advanced Placement Studio Art examination. Students should expect some financial responsibility for advanced art materials. AP Studio 3D Design is intended to address sculptural issues. Students will be asked to demonstrate mastery of 3-D design through any three dimensional approach/material. Students will explore design principles as they relate to the integration of depth and space as well as volume and surface.

Prerequisites and other notes: Successful completion of one of the Honors Level Art Electives or recommendation of the art instructor is a prerequisite.

**AP STUDIO ART: 2D DESIGN**

Course: 601619 (AP) 1 credit

This course enables students to prepare a portfolio for submission to the AP Studio 2D Design Exam AP Studio Art develops the personal commitment to visual expression through rigorous problem-solving and demonstration of material and concept mastery. Each of the portfolios asks the student to demonstrate a depth of investigation and process of discovery through the concentration section (Section II). In the breadth section (Section III), the student is asked to demonstrate a serious grounding in visual principles and material techniques. The quality section (Section I) permits the student to select the works that best exhibit a synthesis of form, technique, and content. This course provides students with the means to construct a college-level visual art portfolio in accordance with MSDE learner outcomes and advanced placement Studio Art standards. Students are encouraged to submit for the College Board’s Advanced Placement Studio Art examination. Students should expect some financial responsibility for advanced art materials.

AP Studio 2D Design is intended to address two-dimensional design issues. Students will make purposeful decisions about how to use the elements and principles of art in an integrative way. The visual elements (line, shape, color, value, texture, space), help guide artists in making decisions about how to organize elements on a picture plane in order to communicate content. This course will

explore the principles of design (unity/variety, balance, emphasis, contrast, rhythm, repetition, proportion/scale, figure/ground relationships), articulated through the art elements in a representational or abstract way.

Prerequisites and other notes: Successful completion of one of the Honors Level Art Electives or recommendation of the art instructor is a prerequisite.

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**DRAMA**

**Suggested Course Sequence**

|  |  |  |  |
| --- | --- | --- | --- |
| **Grade 9** | **Grade 10** | **Grade 11** | **Grade 12** |
| * Drama I | * Drama II or Technical Theater I | * Drama III or Drama II * Honors Theater Production and Analysis | * Independent Study or Drama III or Technical Theater I * Honors Theater Production and Analysis |

**DRAMA I**

Course: 060506 (Academic) ½ credit

Drama I is an introduction to theatre. In this course the students will study early history of theatre, theatre terminology, and basic performance skills. The students will participate in theatre games, mine and pantomime, improvisation, and scene study. The memorization of a short scene and the review of a live stage performance will be required in this course.

Prerequisites and other notes: Public performance may be an expectation in this course.

**DRAMA II**

Course: 061006 (Academic) ½ credit

Drama II is a continuation of the study of theatre. In this course the students will examine character development through scene study and monologues, auditioning techniques, and video production. Drama II will also focus on several aspects of technical theatre such as makeup and publicity. The memorization of short scenes and monologues, and the review of a live stage performance will be required in this course.

Prerequisites and other notes: Drama I. Public performance may be an expectation in this course.

**DRAMA III**

Course: 062006 (Academic) ½ credit

Drama III is a continuation of the study of theatre. In this course the students will further examine character development through scene study using modern and classical works. Students will participate in auditioning for a musical, directing, play writing, children’s theatre, and video production. The memorization of short scenes and monologues, and the review of a live stage performance will be required in this course.

Prerequisites and other notes: Drama II. This course may be repeated for elective credit. Public performance may be an expectation in this course.

**HONORS THEATER PRODUCTION AND ANALYSIS**

Course: 060718 (Honors) 1 credit

In Honors Theater Production and Analysis, students who have successfully completed Drama I and II, and who desire a more advanced study of real-world theatrical production, will engage in a highly rigorous immersion in the analysis, rehearsal, and public performance of a full length script.

Prerequisites and other notes: Drama I and II. This course may be repeated for elective credit with permission of the instructor. Students should expect some financial responsibility for materials. Public performance may be an expectation in this course.

**TECHNICAL THEATER I**

Course: 060606 (Academic) ½ credit

Students will learn the technical and business aspects of theatre production. In Tech I, students will receive an overview of the various elements of technical theatre including scenic, costumes, sound, light, and production. Career opportunities in each related field of technical theatre will also be discussed. Students will participate in a variety of instructional activities to demonstrate understanding in the various areas of technical theatre.

Prerequisites and other notes: Drama I. This course may be repeated for elective credit. Public performance may be an expectation in this course.

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**INDEPENDENT STUDY - DRAMA**

Course: 063006 (Academic) ½ credit

063016 (Academic) 1 credit

Students with exceptional interest in Drama may select to study in an area of advanced work. This may include activities such as set design and set building, costuming, business (publicity and box office), scene study, playwriting, directing, and video production. This may be completed in individual or group setting.

Prerequisites and other notes: Drama III. This course may be repeated for elective credit. Permission of the Instructor is required prior to selecting Independent Study-Drama. Public performance may be an expectation in this course.

**MUSIC**

**Suggested Course Sequence**

|  |  |  |  |
| --- | --- | --- | --- |
| **Grade 9** | **Grade 10** | **Grade 11** | **Grade 12** |
| **Students Interested in Band** | | | |
| * Band I | * Honors Symphonic Band * or Honors Wind Ensemble * or Honors Jazz Ensemble | * Honors Symphonic Band * or Honors Wind Ensemble or Honors Jazz Ensemble or AP Music Theory | * Honors Symphonic Band or Honors Wind Ensemble or Honors Jazz Ensemble and Honors Music History |
| **Students Interested in Orchestra** | | | |
| * Orchestra | * Honors Orchestra | * Honors Orchestra and AP Music Theory | * Honors Orchestra and Honors Music History |
| **Students Interested in Chorus** | | | |
| * Chorus | * Honors chorus or Honors Festival Chorus or Honors Vocal Ensemble | * Honors Chorus or Honors Festival Chorus or Honors Vocal Ensemble and AP Music Theory | * Honors Chorus or Honors Festival Chorus or Honors Vocal Ensemble and Honors Music History |
| **Students Interested in Non-performance Music Study** | | | |
| * Exploring Music * Electronic Music | * Music History | * Honors Music Theory * Honors Music History | * AP Music Theory |

In all music performance classes students use compositions of noted composers, to explore units of study that focus on critical analysis, aesthetic thinking, musical form and style, artistic expression of various cultures, and the social and intellectual influence affecting music as an art. Students must be enrolled in band front or an instrumental performance ensemble to be eligible to participate in marching band. Students should expect some financial responsibility for proper performance attire and proper care of the instruments they use.

**BAND I CONCERT BAND**

Course: 650016 (Academic) 1 credit

**HONORS SYMPHONIC BAND**

Course: 652018 (Honors) 1 credit

**HONORS WIND ENSEMBLE**

Course: 650418 (Honors) 1 credit

Three levels of band are offered, Band I, Symphonic Band, and Wind Ensemble. Wind Ensemble utilizes materials more technically demanding than those for Band I and Symphonic Band. Wind Ensemble is designed for the student of advanced ability level. All Band

Classes focus on the study of traditional band literature as well as transcriptions of great orchestral literature. Students will advance in technical skill, stylistic understanding of historical background, and aesthetic awareness through the study and performance of quality music literature. The instrumental music teacher will place students in the organization which, in his/her best judgment, will provide the most beneficial educational experience for the individual. Performances at school and community events are an integral part of the program. Participation in the public performances is a required component of this course. Instruction in the honors level performing organizations will include foundations in music theory to prepare students for participation in Advanced Placement Music Theory.

Prerequisites and other notes: Band may be repeated for credit. Participation in this class is required for students to be eligible should they choose to participate in All-County and All-State organizations. Performance attire as well as additional rehearsals and performances may be an expectation.

**ENSEMBLE PARTICIPATION**

Course: 652516 (Academic) 1 credit

Ensemble Participation provides opportunities for appropriate combinations of instruments to meet on a regular basis and study by performing some of the great music composed for small ensembles (string quartets, woodwind quintet, brass quintet, percussion ensemble, etc.). In some schools, the percussion ensemble of this course functions as the percussion sections of the various Bands and Wind Ensembles.

Prerequisites and other notes: Permission of the instructor is required prior to selecting this activity. Ensemble Participation may be repeated for credit. Performance attire as well as additional rehearsals and performances may be an expectation.

**HONORS JAZZ ENSEMBLE**

Course: 651718 (Honors) 1 credit

This activity provides the opportunity for the study of dance band, jazz, and popular music. The stylistic elements of performance as well as some of the important artists and music of the jazz and popular field will be studied. The Jazz Ensemble is made up of qualified students selected on the basis of performing skill and required instrumentation. Instruction in the honors level performing organizations will include foundations in music theory to prepare students for participation in Advanced Placement Music Theory.

Prerequisites and other notes: Permission of the band director is required prior to selecting this activity. Jazz Ensemble may be repeated for credit. Performance attire as well as additional rehearsals and performances may be an expectation.

**ORCHESTRA**

Course: 652416 (Academic) 1 credit

**HONORS ORCHESTRA**

Course: 652418 (Honors) 1 credit

Orchestral activities focus on the study of music through orchestral performance. All qualified orchestral string instrumentalists are assigned to this group. Wind and percussion players are selected on the basis of qualifying auditions by the instrumental music teacher. Honors Orchestra is for students who have successfully completed one year of high school orchestra and is an honors level performing course. Instruction in the honors level performing organizations will include foundations in music theory to prepare students for participation in Advanced Placement Music Theory.

Prerequisites and other notes: Orchestra may be repeated for credit. Participation in this class is required for students to be eligible should they chose to participate in All-County and All-State organizations. Performance attire as well as additional rehearsals and performances may be an expectation.

**CHORUS**

Course: 654816 (Academic) 1 credit

**HONORS CHORUS**

Course: 655618 (Honors) 1 credit

**HONORS FESTIVAL CHORUS**

Course: 655718 (Honors) 1 credit

Three levels of chorus are offered, Chorus, Honors Chorus, and Honors Festival Chorus. Honors Festival Chorus utilizes materials more technically demanding than those for Chorus and Honors Chorus. Honors Festival Chorus is designed for the student of advanced vocal ability level. All chorus classes focus on the study of traditional choral literature. Students will advance in technical skill, stylistic understanding of historical background, and aesthetic awareness through the study and performance of quality music literature. The chorus music teacher will place students in the organization, which, in his/her best judgment, will provide the most beneficial educational experience for the individual. Performances at school and community events are an integral part of the program. Participation in the public performances is a required component of this course. Instruction in the honors level performing organizations will include foundations in music theory to prepare students for participation in Advanced Placement Music Theory.

Prerequisites and other notes: Successful completion of Chorus or teacher recommendation is a prerequisite for honors level chorus classes. Honors level chorus classes may be repeated for credit. Performance attire as well as additional rehearsals and performances may be an expectation.

**HONORS VOCAL ENSEMBLE**

Course: 656018 (Honors) 1 credit

Vocal Ensemble provides an opportunity to be organized into ensembles on a regular basis and explore some of the significant vocal ensemble music. This course may include Madrigal group, women's and men's ensembles, and other ensembles appropriate to the needs and abilities of the students. Instruction in the honors level performing organizations will include foundations in music theory to prepare students for participation in Advanced Placement Music Theory.

Prerequisites and other notes: Vocal Ensemble is by audition only. This course may be repeated for credit. Performance attire as well as additional rehearsals and performances may be an expectation.

**ELECTRONIC MUSIC**

Course: 650906 (Academic) ½ credit

650916 (Academic) 1 credit

Students will learn how to use the computer, music synthesizer, and music software to listen, perform, and compose music. They will experience increases in computer knowledge, musical notation and composition and digital sequencing. Students will have the opportunity to create multimedia presentations using music, images, and video.

Prerequisites and other notes: This course may be taken in sequence with Honors Music Theory. This course may be repeated for credit.

**INDEPENDENT STUDY - MUSIC**

Course: 656806 (Academic) ½ credit

656816 (Academic) 1 credit

**Honors Independent Study – Music**

Course: 656808 (Honors) ½ credit

656818 (Honors) 1 credit

Where facilities and equipment permit, provision for independent study is recommended. Individualized listening centers and sound isolated practice areas are necessary. Independent study may be scheduled for vocal music students, instrumental music students, music theory, music literature, piano, conducting, etc. Students may also serve as teaching assistants in various capacities.

Prerequisites and other notes: Permission of the instructor and approval of the principal are required.

**HONORS MUSIC THEORY**

Course: 653608 (Honors) ½ credit

Students gain academic proficiency in reading and writing music notation, scales and intervals, basic harmony, basic melody, and form. Successful completion of the course will provide an understanding of melody, harmony, rhythm, and form, thereby equipping the students to better understand existing music and to compose music using the principles of music theory as a guide. Training on notation software will be included when available. By the end of the course the student will compose a short original composition utilizing four-part chorale texture and score it for a mixed quartet of instruments. This course will provide the students foundations in music theory in preparation for Advanced Placement Music Theory.

Prerequisites and other notes: Students should complete 1 credit of music course work or recommendation of instructor.

**AP MUSIC THEORY**

Course: 653519 (AP) 1 credit

AP Music Theory is an advanced level course designed to engage students in learning activities that will help them to achieve the outcomes measured by the College Board’s Advanced Placement Music Theory Examination. The design of the AP Music Theory course is to develop a student’s ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. These abilities will be developed through knowledge in aural skills, sight singing skills, written skills, compositional skills, and analytical skills. Students are encouraged to sit for the College Board’s Advanced Placement Music Theory examination.

Prerequisites and other notes: Students must successfully complete an Honors level performance course or Honors level Music Theory.

**SCHOOL COUNSELING PROGRAM**

**ACADEMIC DEPARTMENT ASSISTANT**

Course: 801506 ½ credit

801516 1 credit

This course is designed for students interested in learning how to assist other students in improving their content knowledge and/or skills in the content area assigned. Specifically, the assistant helps the teacher in the preparation and/or distribution of instructional materials, tutoring and helping individual students and providing other assistance to the teacher as needed. Academic Department Assistants are required to attend training. Their supervision is the responsibility of the assigned teacher. This course is for elective credit only for juniors and seniors, on a pass/fail basis. Students may earn 10 service-learning hours for ½ credit assigned.

**HONORS CAREER RELATED INTERNSHIP**

Course: 801208 (Honors) ½ credit

801218 (Honors) 1 credit

801228 (Honors) 2 credits

801238 (Honors) 3 credits

This course provides twelfth grade students with the opportunity to obtain actual work experience in a specific career field based on a completer or major area of study. Program or major prerequisites, an application, and an interview must be completed prior to the selection of this course. Students will complete a training plan geared to their career goals and will be placed in a local business for a nine or eighteen week period in a paid or unpaid experience.

Prerequisites and other notes: An overall 2.5 GPA, 94% attendance (previous semester), and coursework completed in a Pathways To Careers completer or major related to the internship experience. Student transportation is the responsibility of the parent or guardian. This course may be taken as the final course in the Accounting and Business Administration and Management completer programs in lieu of Honors Business Education Capstone.

**CONCURRENT ENROLLMENT**

Course: 800700 (Non-Credit) 0 credit

800606 (Academic) ½ credit

800616 (Academic) 1 credit

800626 (Academic) 2 credits

This course provides students who meet prerequisites the opportunity to attend a pre-approved program at an institution of higher learning and/or career program that does not provide college credit during the school day. Students seeking concurrent enrollment must have a parent conference for post-secondary planning with their counselor.

Prerequisites and other notes: The student must complete all Student Service requirements and maintain 94% attendance during the 9 weeks preceding the application. In addition, the student must have completed or be enrolled at the home school in courses meeting graduation requirements, including those courses designed to satisfy the requirement of earning 4 credits beyond grade 11.

**DUAL ENROLLMENT - General**

Course: 800909 (Transcripted) ½ credit

800919 (Transcripted) 1 credit

Dual enrollment provides high school juniors and seniors the opportunity to enroll in college level courses through local colleges while enrolled in a Carroll County public high school. Dually enrolled students may take college courses for which they have met the prerequisite requirements and for which they have received authorization by both a parent/guardian and a designated school official. Approval for participation is dependent upon the student’s GPA, service-learning hours, and attendance requirements. Courses may be selected from either the general education component or the career completer courses of CCPS state-approved programs offered at the College. Courses not eligible for the dual enrollment program include summer courses and non-credit bearing courses. Upon successful completion of the course(s), the student will receive college credit. The grade report will be forwarded at the conclusion of each semester directly to the high school. Students must make an appointment with their school counselor and have a parent conference to review the educational plan, discuss course options at the college, fees, and obtain appropriate paperwork. Prior to the student enrolling in the dual enrollment program, a parent conference will be held with the school counselor for post-secondary planning. The student/parent must complete the Dual Enrollment Application. Dual enrollment courses will be reflected on the student’s high school transcript and the final grade will be calculated into the high school GPA. College courses at the 100 level or above will receive .5 high school credit for 1-2 college course credits and 1.0 high school credit for 3-5 college course credits. Dual enrollment courses will be weighted as a transcripted/AP course and may count toward graduation requirements. Students must be enrolled in a total of four credits for the semester (college and minimum of 1 CCPS credit combined).

**HIGH SCHOOL ASSESSMENT SUPPORT**

Course: 801401 (Basic) ½ credit

801411 (Basic) 1 credit

This course is designed for students who have not passed any of the Maryland High School Assessments (English, Algebra I, Government, and Biology). Students are provided with an individualized program of learning that focuses on specific content, skills, and strategies needed for success on the High School Assessments.

Prerequisites and other notes: Students are placed in this course by the school administration. This course carries elective credit only and it may be repeated for elective credit.

**INDEPENDENT STUDY - COMMON GROUND ON THE HILL**

Course: 802116 (Academic) 1 credit

802119 (Transcripted) 1 credit

Common Ground on the Hill provides students the opportunity to study a variety of musical instruments and art forms representing various ethnic and cultural traditions. This is a one-week course held during the summer on the campus of McDaniel College.

Students will explore cultural diversity in search of common ground among ethnic, gender, age, and racial groups. They will be able to select from over 200 classes in instrumental music, the visual arts, musical ensemble workshops, singing, dancing, songwriting, recording, broadcasting, listening, spoken word, and literary arts, film, and human arts.  Students completing the one-week course can earn one (1) high school elective credit and/or 3 transcripted college credits.

Prerequisites and other notes: The tuition, fees, and transportation are the responsibility of the parent/guardian. Additional details and registration information will be available at your school or online at www.CommonGroundOnTheHill.org. This course does not fulfill any graduation requirements.

**INDEPENDENT STUDY - STUDENT SERVICE LEARNING**

Course: 802006 (Academic) ½ credit

802016 (Academic ) 1 credit

802026 (Academic) 2 credits

This course is designed for 11th and 12th grade students who are involved in approved service activities in the school/community. Students must present a proposal to their principal for prior approval which includes the three critical components of service-learning: preparation, action, and reflection.

Prerequisites and other notes: Students may earn ten (10) service-learning hours for the ½ credit course, twenty (20) hours for the 1 credit course, and forty (40) hours for the 2 credit course.

**PEER FACILITATING**

Course: 800006 (Academic) ½ credit

800016 (Academic) 1 credit

This course is designed for students who are interested in developing leadership skills which will permit them to recognize and intervene in problems identified in their school. Peer Facilitators may be requested to work one-on-one or in small groups with other students on school, peer, and family related concerns. Peer Facilitators may also do classroom presentations on conflict resolution. Students selected must evidence satisfactory academic achievement, as well as emotional maturity and leadership potential. Students must exemplify, model, and maintain appropriate behavior. Students will work under the direct supervision of a school counselor. Grading will be on a pass/fail basis. Students must apply and be selected as peer facilitators.

Prerequisites and other notes: Students must complete a summer peer facilitating training program and at least one mid-year training during the school year. Students may earn ten (10) service-learning hours for the ½ credit course and twenty (20) hours for the 1 credit course.

**TEEN LEADERSHIP**

Course: 801306 (Academic) ½ credit

Teen Leadership is a program in which students develop leadership, professional, and business skills. They learn to develop a healthy self-concept, healthy relationships, and learn to understand the concept of personal responsibility. They will develop an understanding of Emotional Intelligence and the skills it measures, which include self-awareness, self-control, self-motivation, and social skills. Students will develop skills in public speaking and the concept of principle-based decision-making and learn to make responsible financial decisions. They will develop an understanding of the effects of peer pressure, skills to counteract those effects, and problem-solving skills. They will develop an understanding of the principles of parenting, enabling them to become better family members and citizens. They will also develop an understanding of the need for vision in goal-setting, personally and professionally.

**HEALTH**

**HEALTH I**

Course: 300006 (Academic) ½ credit

This course encourages students to develop skills, attitudes, and behaviors that will enable them to make the responsible decisions that promote healthful behaviors. Issues that will be included are: mental and emotional health; alcohol, tobacco, and other drugs; personal and consumer health; Family Life and Human Sexuality; safety and injury prevention; nutrition and fitness; and disease prevention and control.

Prerequisites and other notes: This ½ credit course is required for graduation and is designed for coeducation classes.

*Note to Parents:* A letter will be sent home from your child’s health educator explaining the Family Life and Human Sexuality component of the Health I program. This letter will include a permission slip which must be returned to school for your child to participate.

**HEALTH II**

Course: 302006 (Academic) ½ credit

This elective course provides an additional opportunity for students to pursue their interests in health. Through research and projects, students will explore various health topics including but not limited to, body systems, diseases, safety, nutrition, human sexuality and current health issues. Instruction will be offered in CPR/AED First Aid certification. Attention will be given to health‑related career opportunities.

Prerequisites and other notes: Successful completion of Health I, and may only be taken by grade 10, 11, or 12 students.

**HONORS HEALTH III**

Course: 303008 (Honors) ½ credit

Students in this course will study the current health issues facing young people today, including nutrition, public health issues, behavioral sciences, mental and emotional issues, healthy relationships and human sexuality, and health careers. Students will have opportunities to research, to debate, and to explore topics in greater depth using inquiry and problem solving approaches.

Prerequisites and other notes: Successful completion of Health II, and may only be taken by grade 11and 12students.

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**Junior ROTC (JROTC) @ Century High School**

**LEADERSHIP EDUCATION AND TRAINING (LET) I**

Course: 570116 (Academic) 1 credit

This course includes classroom and laboratory instruction in the history, customs, traditions, and purpose of Army ROTC. It contains the development of basic leadership skills, communication skills, and conflict management and resolution skills. Emphasis is placed on writing skills and oral communication techniques. Financial planning is introduced. Physical fitness, healthy lifestyles, and basic first aid measures are discussed. An overview of geography and the globe are incorporated into this course. Also included is a study of the U.S. Constitution, Bill of Rights, responsibilities of U.S. citizens, and the federal justice system. Students will participate in drill activities.

**LEADERSHIP EDUCATION AND TRAINING II**

Course: 570216 (Academic) 1 credit

This course includes classroom and laboratory instruction on skills taught in LET I. This course introduces equal opportunity and sexual harassment. It provides instruction in leadership styles and practical time to exercise leadership theories as well as the basic principles of management. The course provides self-assessments to help students determine their skill sets and opportunities to teach using accepted principles and methods of instruction. Students will participate in drill activities.

Prerequisites and other notes: LET I.

**LEADERSHIP EDUCATION AND TRAINING III**

Course: 570316 (Academic) 1 credit

This course includes classroom and laboratory instruction. Leadership and decision-making skills are emphasized throughout the course. Topics addressed include: services available in the military, financial management, United States History, career exploration, and the development of a career portfolio. The research, identification, planning, and execution of a service-learning activity are also included. Students will participate in drill activities.

Prerequisites and other notes: LET II.

**LEADERSHIP EDUCATION AND TRAINING IV**

Course: 570416 (Academic) 1 credit

This course includes classroom and laboratory instruction. LET IV includes requirements for the practical application of leadership duties. An emphasis is placed on exercises in writing skills. Physical fitness is also a part of this course. Other topics that are included are: geography, environmental issues, the judicial system, the Constitution, and local government. Students will participate in drill activities.

Prerequisites and other notes: LET III.

**LEADERSHIP EDUCATION AND TRAINING V**

Course: 570516 (Academic) 1 credit

The advanced curriculum LET V course includes both classroom and laboratory instruction. It builds on leadership and management skills cadets learned in the four (4) previous LET levels of JROTC. Emphasis is placed on study skills, thinking skills, communications skills, and personnel and unit management skills to enable students to develop their maximum potential. Cadets will use self-assessment and peer counseling tools and techniques to determine the current status of the unit, develop plans and schedules for the unit's improvement and growth, and continue to make strides toward graduation. Students will continue to participate in and lead drill, physical fitness, and leadership development activities.

Prerequisites and other notes: LET IV

**LEADERSHIP EDUCATION AND TRAINING VI**

Course: 570616 (Academic) 1 credit

This course includes and expands on unit organization and management skills cadets developed in the previous LET levels of JROTC. Topics explored and expanded in this course include conflict resolution, teaching skills, making a difference with service-learning, career knowledge and preparing for the future, planning skills and social responsibility, and the high school financial planning program. Cadets will use a hands-on approach to assist instructors with developing better U.S. citizens of their fellow cadets, assist with instructions in the classroom, during drills, at physical fitness sessions, and assist with extracurricular team activities-to include Color Guard, Drill Team, and Cadet Raider Challenge Team. Students will participate in unit activities.

Prerequisites and other notes: LET V.

**LEADERSHIP EDUCATION AND TRAINING VII**

Course: 570716 (Academic) 1 credit

This course gives senior level JROTC cadets the opportunity to provide direct assistance to lower level cadets through classroom assisted instruction, on the field drill instruction and inspections, and conduct of leadership lab. Cadets will demonstrate to fellow cadets-through their conduct-the importance of maintaining a physical fitness regimen, healthy lifestyle and diet, and proficiency in basic first aid/life-saving skills. Continued emphasis will be placed on the importance of completing high school. Likewise, continued emphasis will be placed on drug awareness and substance abuse, substance abuse-intervention and prevention, and improving your surroundings and environment through personal involvement. Cadets will receive instruction in citizenship and leadership development.

Prerequisites and other notes: LET VI.

**LEADERSHIP EDUCATION AND TRAINING VIII**

Course: 570816 (Academic) 1 credit

This final course includes enabling senior cadets to employ the leadership, management, and citizenship skills they developed in the classroom and laboratory to prepare for graduation. Cadets will assume leadership positions in the unit, serve as advisors to fellow cadets, oversee unit activities, help prepare fellow cadets for annual summer leadership camp, and provide advice and assistance to instructors for strategies to improve the JROTC program. Emphasis will be placed on exploring the world, your job as an American citizen, sources of power, the Federal judicial system, and growth of a nation. Cadets will oversee, assist, and direct service-learning projects and activities of fellow students. Cadets will assist with the overall operation of the JROTC program while continuing to prepare for graduation.

Prerequisites and other notes: LET VII.

**INDEPENDENT STUDY: LEADERSHIP EDUCATION AND TRAINING (LET)**

Course: 570906 (Academic) ½ credit

This course is for students who wish to extend their experience in the Junior ROTC program. It is an individualized course and students must contract for a grade. The outcomes and activities for the course are designed jointly by the teacher and the student. Students taking this course must hold weekly conferences with the teacher. This time is used to check progress and provide guidance.

Prerequisites and other notes: Completion of LET I- IV, permission of the teacher, and approval by the principal are required. This course may be repeated for credit.

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**MATHEMATICS**

**Suggested Course Sequence**

|  |  |  |  |
| --- | --- | --- | --- |
| **Grade 9** | **Grade 10** | **Grade 11** | **Grade 12** |
| **Students Completing Honors Algebra I in 8th Grade** | | | |
| * Honors Geometry | * Honors Algebra II | * Honors Trigonometry/Pre-Calculus | * AP Calculus AB * AP Calculus BC * AP Statistics |
| **Students Completing 8th Grade Math** | | | |
| * Conceptual Algebra | * Algebra I | * Geometry | * Algebra II |
| * Algebra I | * Geometry | * Algebra II | * Higher Level Math |
| Notes:   * Students on track to meet the University System of Maryland graduation requirements must take and pass Algebra II or a course beyond Algebra II during the final year of high school * Following successful completion of Algebra II, students may also elect to take the following courses: Trigonometry/ Pre-calculus, Probability and Statistics, AP Statistics, Honors Calculus, AP Calculus | | | |

**CONCEPTUAL ALGEBRA**

Course: 201211 (Basic) 1 credit

201316 (Academic) 1 credit

In this course, students will strengthen their algebraic foundations in solving linear equations and inequalities in one variable, applying graphical and algebraic methods to analyze and solve systems of linear equations in two variables, and developing fluency writing and interpreting real world application problems. Students will perform operations with polynomials including addition, subtraction, multiplying, and factoring. In addition, they will compare/contrast linear, exponential, and quadratic functions both graphically and algebraically.

Prerequisites and other notes: This course will fulfill one of the three required graduation credits for mathematics.

**ALGEBRA I** 🏋

Course: 201811 (Basic) 1 credit

201816  (Academic) 1 credit

**HONORS ALGEBRA I** 🏋

201918 (Honors) 1 credit

Algebra I deepens and extends the understanding of linear and exponential relationships by comparing and contrasting them with each other and by applying linear models to data. Students will engage in methods for analyzing and solving systems of equations involving linear, exponential, and quadratic function. In addition, students will create and solve equations and inequalities and examine data sets in one and two variables. Students will expand their experience with functions to include more specialized functions—absolute value, step and piecewise defined functions. The Standards for Mathematical Practices will be applied throughout the course to help students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

**GEOMETRY** 🏋

Course: 203911 (Basic) 1 credit

203916 (Academic) 1 credit

**HONORS GEOMETRY** 🏋

Course: 203918 (Honors) 1 credit

Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Transformations are emphasized, and students draft geometric constructions and formally analyze their conclusions. Students extend their experience with two dimensional and three dimensional objects, build on their work with triangles, circles and other polygons, while continuing their study of quadratics by connecting the geometric and algebraic definitions.

Prerequisites and other notes: Algebra I.

**ALGEBRA II** 🏋

Course: 202611 (Basic) 1 credit

202616 (Academic)1 credit

**HONORS ALGEBRA II** 🏋

Course: 202618 (Honors) 1 credit

This course is designed to prepare students for college and career readiness as they explore polynomial, rational, and radical and exponential functions. Students will build on their prior knowledge of functions, solving equations, and basic right triangle trigonometric ratios. Students will extend their knowledge of trigonometry to include the unit circle, radian measure, and to model trigonometric phenomena. Students will also extend their work with exponential functions to include solving exponential equations and logarithms, and explore the effects of transformations on graphs of diverse functions. Students will expand their knowledge of basic probability and statistics to include conditional probability, interpret categorical and quantitative data, and make inferences to justify conclusions.

Prerequisites and other notes: Algebra I and Geometry.

**INTEGRATED ALGEBRA** 🏋

Course: 201916 (Academic) 1 credit

This course is designed to help prepare students for bridge project completion and college and career readiness in the field of mathematics as they explore the following topics: algebraic concepts, graphs and functions, polynomials and factoring, quadratics, rational expressions, exponents, radicals, exponentials, logarithms, and trigonometry. Upon completion of the course, students may take the MHSA Algebra I and/or the Accuplacer College Level Math exam.

Prerequisites and other notes: Algebra I.

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**INTEGRATED ALGEBRA & STATISTICS** 🏋

Course: 201516 (Academic) 1 credit

This course will prepare students for college and career readiness in algebra and statistics. Integrated Algebra topics include quadratics, rational expressions, exponents, radicals, exponentials, logarithms, and trigonometry. The Statistics topics fall into four main categories: exploratory analysis, planning a study, probability, and statistical inference. The primary focus will be on basic skills, statistical interpretation, and real world applications. Upon course completion, students will complete a culminating course project and take the Accuplacer College Level Math exam.

Prerequisites and other notes: Algebra II.

**AP STATISTICS** 🏋

Course: 205019 (AP) 1 credit

Topics included in this course are broken into four main categories: Exploratory Analysis, Planning a Study, Probability, and Statistical Inference. Students are expected to sit for the AP Statistics Examination. Possible college credit can be earned with a score of 3, 4, or 5 on the examination. Students are encouraged to sit for the College Board’s Advanced Placement Statistics Examination.

Prerequisites and other notes: Algebra II.

**TRIGONOMETRY / PRE-CALCULUS** 🏋

Course: 204516 (Academic) 1 credit

**HONORS TRIGONOMETRY / PRE-CALCULUS** 🏋

Course: 204518 (Honors) 1 credit

This course is intended for college-bound students who will use higher level mathematic as they continue their education after high school. Topics studied include trigonometric functions, radian measure, graphing trigonometric functions, trigonometric identities, inverse trigonometric functions, trigonometric equations, law of sines and cosines, vectors, conic sections, polar and parametric equations, sequences and series, and an introduction to limits.

Prerequisites and other notes: Algebra II (Level 8 highly recommended for Honors Trig/Pre-Calc). Algebra II and Trigonometry/Pre-Calculus should be taken in back-to-back semesters or in back-to-back years to preserve the needed pre-requisite skills.)

**HONORS CALCULUS** 🏋

Course: 205718 (Honors) 1 credit

In this course students explore the concepts of limits, derivatives, and integrals and prepare for further studies in calculus. Limits are essential since they provide the foundation for both differential and integral calculus. Students will learn the interpretations, techniques, and applications of both derivatives and integrals.

Prerequisites and other notes: Trigonometry / Pre-calculus.

**AP CALCULUS AB**  🏋

Course: 205319 (AP) 1 credit

In this course, students study graphs, functions, limits, derivatives, and integrals, and prepare for further studies in calculus. Students will learn the interpretations, techniques, and applications of both derivatives and integrals. Much work will be done with graphing calculators. Students are expected to sit for the College Board’s Advanced Placement Calculus AB Examination.

Prerequisites and other notes: Honors Trigonometry / Pre-calculus or Honors Calculus.

**AP CALCULUS BC** 🏋

Course: 205219 (AP) 1 credit

Much emphasis is placed on preparing for the AP Calculus BC test. In addition to applying concepts from Calculus, students investigate advanced techniques of integration, polar and parametric equations, and infinite series. Topics such as Taylor, Power, and Maclaurin series will be emphasized. Students are expected to sit for the College Board’s Advanced Placement Calculus BC Examination.

Prerequisites and other notes: AP Calculus AB.

**HONORS INDEPENDENT STUDY - MATHEMATICS**

Course: 206308 (Honors) ½ credit

206318 (Honors) 1 credit

Independent Study: Mathematics allows students to work independently in an area of study or research which is an extension of a topic previously studied or an area of study or research not covered in the high school course of studies. Work is done during the student's unassigned time under the direction of a faculty advisor. Regularly scheduled conferences will occur. Students register only on the recommendation of their teacher and school counselor.

Prerequisites and other notes: Permission of the instructor and approval of the principal are required.

**PHYSICAL EDUCATION**

**Suggested Course Sequence**

|  |  |  |  |
| --- | --- | --- | --- |
| **Grade 9** | **Grade 10** | **Grade 11** | **Grade 12** |
| * Physical Education I (required) | * Team Sports * Individual/Dual Sports * Weight Training * Personal Fitness * Barbell and Cross Training | * Team Sports * Individual/Dual Sports * Weight Training * Advanced Weight Training * Personal Fitness * Barbell and Cross Training | * Team Sports * Individual/Dual Sports * Weight Training * Advanced Weight Training * Personal Fitness * Barbell and Cross Training |

**PHYSICAL EDUCATION I**

Course: 250006 (Academic) ½ credit

Physical Education I is required as ½ credit towards the CCPS Physical Education 1.0 graduation requirement and is the prerequisite for all other PE courses. Emphasis will be placed on concepts of personal fitness and knowledge to achieve and maintain a healthy level of physical fitness. Students will participate in a variety of sport theme activities that can be used for lifetime recreation and personal fitness. The following is a listing of sport theme offerings: Fitness (Warm-ups, Plyometrics, Walking/Jogging, Heart Rate Fitness), Throwing and Catching (Ultimate Frisbee, Volleyball, Flag Football, Soccer, Basketball), Striking (Tennis, Pickle ball, Badminton, Golf, Table Tennis), and Speed/Timing /Accuracy (Archery, Bowling).

Prerequisites and other notes: Recommended for all grade 9 students.

**ADAPTED PHYSICAL EDUCATION**

Course: 252406 Fall (Academic) ½ credit

252506 Spring (Academic) ½ credit

This course is designed to provide individualized and group learning experiences for students with special needs. Students in this class must have an IEP with stated goals and objectives for physical education, a section 504 plan, or special permission. This course may be taken in place of Physical Education I if it provides the least restrictive environment for the special needs of the student. This course may be repeated for credit.

Prerequisites and other notes: Admittance to the course is determined by the school counselor, physical education staff, and special education staff.

**Barbell and Cross Training**

Course 253206 (Academic)  ½ credit

Barbell and Cross Training offers instruction and practice in proper barbell lift technique and the development of muscular strength, endurance, and agility through participation in cross training challenges. Particular focus will be on improving overall strength and conditioning.  Benefits of this kind of training may include better health, appearance, strength, and confidence.

Prerequisites and other notes: Successful completion of Physical Education I. This course may be repeated for credit.

**INDIVIDUAL/DUAL SPORTS**

Course: 250806 (Academic ) ½ credit

Previously learned concepts and skills from Physical Education I provide the foundation for this course. Emphasis will be placed on personal improvement of sport-specific movement patterns, strategies, and rules. Both skill-related and health-related components of physical fitness will be emphasized. Student will develop their skill competencies, participate in Individual/Dual sports, and work towards achievement of personal fitness levels. Students within a class will be performing at varying levels of competency. The following is a listing of Individual/Dual sports activities:

Archery Handball Tennis

Badminton Pickle Ball Bowling

Golf Table Tennis Horseshoes

Prerequisites and other notes: Successful completion of Physical Education I. This course may be repeated for credit.

**PERSONAL FITNESS**

Course: 257006 (Academic) ½ credit

Students will be educated in the areas of health, fitness, and wellness to give them the self-maintenance skills, physical skills and knowledge base to help them adopt a healthy lifestyle. The following is a listing of Personal Fitness activities:

Body Toning Low Impact Aerobics Tae-Bo

Flexibility Exercises Walking Program Pilates

High Impact Aerobics Step Aerobics Yoga

Jogging Program Strength Conditioning

Prerequisites and other notes: Successful completion of Physical Education I. This course may be repeated for credit.

**TEAM SPORTS**

Course: 251006 (Academic) ½ credit

Previously learned concepts and skills from Physical Education I provide the foundation for this course. Emphasis will be placed on personal improvement of sport-specific movement patterns, strategies and rules. Both skill-related and health-related components of physical fitness will be emphasized. Students will develop their skill competencies, participate in Team Sports and work towards achievement of personal fitness levels. Students within a class will be performing at varying levels of competency. The following is a listing of Team Sports activities:

Basketball Indoor Soccer Softball

Field Hockey Lacrosse Volleyball

Flag Football Mass Games Speedball

Floor Hockey Soccer Ultimate Frisbee

Prerequisites and other notes: Successful completion of Physical Education I. This course may be repeated for credit.

**WEIGHT TRAINING**

Course: 253006 (Academic) ½ credit

This course is designed for the student who wants to improve and maintain a physical fitness level which will allow him/her to produce physically to maximum proficiency. This course will include endurance, strength, agility, and aerobic activities.

Prerequisites and other notes: Successful completion of Physical Education I. This course may be repeated for credit.

**ADVANCED WEIGHT TRAINING**

Course: 253116 (Academic) 1 credit

This course is designed for students who have successfully completed the prerequisite Weight Training course. It will build upon the concepts and skills of exercise physiology, as well as biomechanical, social psychological, and motor learning principles. It will challenge students to maintain or improve their physical fitness levels.

Prerequisites and other notes: Weight Training. This course may be repeated for credit.

**HONORS INDEPENDENT STUDY - PHYSICAL EDUCATION**

Course: 250718 (Honors) 1 credit

This honors independent study course is for students who wish to pursue a health and fitness related career. Students will prepare projects on various health and fitness related topics and work independently on assignments. The teacher will require check points throughout the semester to track student progress and direct learning.

Prerequisites and other notes: Recommended for grade 12. Recommended for highly able students. Students taking this course must have had at least three (3) classes (or 1.5 credits) of physical education and possess appropriate research skills for independent study projects. Permission of the instruction and approval of the principal are required.

**SCIENCE**

**Suggested Course Sequence**

|  |  |  |  |
| --- | --- | --- | --- |
| **Grade 9** | **Grade 10** | **Grade 11** | **Grade 12** |
| * Conceptual Physics | * Chemistry I * Biology | * Science Electives | * Science Electives |
| **Or Suggested Honors Track** | | | |
| * Conceptual Physics * Chemistry I | * Biology * Chemistry II | * Science Electives | * Science Electives |

**CONCEPTUAL PHYSICS** 🏋

Course: 155311 (Basic) 1 credit

155316 (Academic) 1 credit

**HONORS CONCEPTUAL PHYSICS** 🏋

Course: 155318 (Honors) 1 credit

Conceptual Physics is an activity-based physics course in which students are challenged to solve a problem that is identified at the beginning of each chapter. Students solve problem using the knowledge learned from the chapter. New content is presented in a variety of learning formats. Students learn from experiments and by asking a series of questions; e.g., Why are seatbelts important? Why is loud music hazardous? Why is communication with extra-terrestrials difficult?

**CHEMISTRY I** 🏋

Course: 151611 (Basic) 1 credit

151616 (Academic) 1 credit

**HONORS CHEMISTRY I** 🏋

Course: 151618 (Honors) 1 credit

This course will provide students with a specific background in the nature of matter, atomic structure, molecular motion, chemical solutions, chemical bonding, and organic chemistry. Emphasis will be placed upon problem solving and laboratory skills. The mathematical concepts involved in the presentation of these topics will be at an appropriate grade level for the students enrolled in this class. Computer software/interfaces, demonstrations, and hands-on laboratories will relate science content to current applications in our everyday life. A variety of activities and experiences will accommodate the unique needs and varied learning styles of all students. Lesson activities will develop organizational skills, analytical reasoning, and problem solving.

Prerequisites and other notes: Conceptual Physics.

**BIOLOGY** 🏋

Course: 150811 (Basic) 1 credit

150816 (Academic) 1 credit

**HONORS BIOLOGY** 🏋

Course: 150818 (Honors) 1 credit

This is a laboratory-oriented course in which the basic principles of the living world unfold. The content centers around two major biological theories which are developed in detail. In the first, students learn that all living things are made of cells which are responsible for the functions of an organism; in the second, they learn that all living things change and evolve with time. Supporting evidence comes from studies of cell anatomy, physiology, and biochemistry, cell reproduction and genetics, and our method of classifying living things. Current and futuristic issue surrounding DNA technology will be considered. The interrelations between organisms are also discussed. Computer software/interfaces, demonstrations, and hands-on laboratories relate science content to current applications in our everyday life. A variety of activities and experiences will accommodate the unique needs and varied learning styles of all students. Lesson activities will develop organizational skills, analytical reasoning, and problem solving.

Prerequisites and other notes: Chemistry I.

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**CHEMISTRY II**  🏋

Course: 154816 (Academic) 1 credit

**HONORS CHEMISTRY II** 🏋

Course: 154818 (Honors) 1 credit

Chemistry II is offered to those students who wish to extend their study of chemistry. This laboratory/lecture oriented course is designed to specifically cover organic chemistry, qualitative analysis, and aspects of physical and biochemistry. Strong emphasis will be placed on the methods of production and analysis of organic and inorganic compounds, the commercial impact and cost analysis of various compounds, and the laboratory techniques necessary to complete these tasks. The inclusion of the Organic Chemistry unit and the associated activities including the manufacture and testing of some pharmaceuticals will incorporate the outcomes of the manufacturing systems of Technology Education. Some of the organic activities are: the synthesis of aspirin, the analysis of aspirin products, the analysis of antacid products, and the production of nylon and rayon as polymers. The presentation of laboratory results including data representation, graphing skills, statistical analysis, writing skills, and critical thinking skills are essential for the success of all students.

Prerequisites and other notes: Biology.

**HUMAN ANATOMY AND PHYSIOLOGY** 🏋

Course: 156016 (Academic) 1 credit

**HONORS HUMAN ANATOMY AND PHYSIOLOGY** 🏋

Course: 156018 (Honors) 1 credit

The course is designed to provide background for students interested in pursuing careers in medical fields. Topics of study will include: the skeleton, control systems, coordinated body functions, respiration, electrolyte balance, digestion, and regulation of water. Related mammalian dissections will enhance some units. Students are encouraged to seek the advice of science teachers when selecting their Anatomy course.

Prerequisites and other notes: Academic - Biology. Chemistry II is recommended prior to this course. Honors - Biology and Chemistry II.

**Aquatic Environmental Science**

Course: 152506 (Academic) ½ credit

The course is a study of basic aquatic environmental science. It includes lab and field study of water ecosystems of the Carroll County area. Outdoor investigations will be used when feasible. Indoor aquaria will model outdoor systems. Population biology and related management practices will be explored. Aquatic environmental science includes studying local sources of freshwater, ground water, pond ecosystems, and stream management. The connection between Carroll County streams and the Chesapeake Bay will lead to the study of the Bay as a unique ecosystem.

Prerequisites and other notes: Biology. Students will have the opportunity to earn fifteen (15) service-learning hours during the course. The projects for these service hours will be extensions of the aquatic environmental science curriculum.

**Terrestrial Environmental SCIENCE**

Course: 152606 (Academic) ½ credit

Terrestrial Environmental Science is a hands-on science course emphasizing relationships between the student and their impact on local environments. Outdoor investigations will be used when feasible. Course topics include ecosystem factors, biomes, urban and agricultural land use, forestry, waste management, alternative energy and carbon footprint.

Prerequisites and other notes: Biology. Students will have the opportunity to earn fifteen (15) service-learning hours during the course. The projects for these service hours will be extensions of the terrestrial environmental science curriculum.

**Honors Earth Science**

Course: 152708 (Honors) ½ credit

This course is a study of Geology. Students will explore why the Earth’s surface continues to change. The Earth’s surface has been lifted up, pushed down, bent, and often broken to take the form that we see today. Computer simulations and data bases will be used to incorporate Land Sat and GPS technologies into the study of the Earth’s surface and interior. The outcomes of the course will reflect the content defined by the MSDE Earth and Space Core Learning Goals.

Prerequisites and other notes: Biology.

**HONORS EARTH AND SPACE SCIENCE** 🏋

Course: 153108 (Honors) ½ credit

This course is a study of meteorology and astronomy, and how they interact with one another. A variety of software packages will model content that will enhance the understanding of Earth and Space concepts. Weather satellite images will provide current data to reinforce the understanding of changes in our atmosphere. The Internet will be used to access space related data from space probes, satellites and telescope observations. The Outcomes of this course will reflect the parameters defined by the MSDE Earth and Space High School Core Learning Goals.

Prerequisites and other notes: Biology.

**HONORS SCIENCE RESEARCH I** 🏋

Course: 156618 (Honors) 1 credit

Science Research acquaints students with the fundamental skills and procedures of individual research. Students will receive instruction in use of library resources, computer on-line services (Internet), computer applications (data bases, graphing, graphics, spreadsheets, and work processing), and statistical analysis. These processes will be integrated to a series of assigned laboratory activities representative of the different content areas. The use of electronic test equipment, as well as, computer interface probes are an integral part of data collection. There is a direct application of the science content to its appropriate technological applications. Students will be given extensive guidance in the preparation of a research paper to be prepared by the end of the course. An individual research project will also be developed during the course.

Prerequisites and other notes: Biology. Chemistry II is recommended prior to this course. Students will have the opportunity to earn ten (10) service-learning hours.

**HONORS SCIENCE RESEARCH II** 🏋

Course: 156718 (Honors) 1 credit

The student will develop a project and scientific paper suitable for presentation. The project may be a continuation from the previous year’s Science Research I class or a new project, though all projects will incorporate lab and computer skills learned in Science Research I. The projects may involve other schools, and students may work in cooperation with community and business leaders, as well as, local scientists and professionals. Students will develop advanced skills in authoring advanced multimedia presentations. The student will have the opportunity to develop the skills needed for more sophisticated laboratory work. Students must be responsible and disciplined as the class requires a large amount of independent work.

Prerequisites and other notes: Science Research I. Recommended for grade 12. Students will have the opportunity to earn ten (10) service-learning hours. This course may be repeated for elective credit.

**AP BIOLOGY** 🏋

Course: 154319 (AP) 1 credit

The AP Biology course is designed to be the equivalent of a college introductory course taken by biology majors during their first year at college. Topics covered will be: (1) Molecules and Cells, (2) Heredity and Evolution, and (3) Organisms and Populations. Students will develop a conceptual framework for modern biology and gain an appreciation for the processes of science. Twelve AP laboratories will be offered during the class. Students are encouraged to sit for the College Board’s Advanced Placement Biology Examination.

Prerequisites and other notes: Biology and Honors Human Anatomy and Physiology. Honors Human Anatomy and Physiology may be taken concurrently with AP Biology.

**AP CHEMISTRY** 🏋

Course: 154919 (AP) 1 credit

The AP Chemistry course is designed to be the equivalent of a college introductory Chemistry course taken by chemistry majors during their first year at college. Topics such as the Structure of Matter, Kinetic Theory of Gases, Chemical Equilibria, Chemical Kinetics, and the basic concepts of thermodynamics will be presented in considerable depth. Twenty-two AP laboratories will be completed. Students are encouraged to sit for the College Board’s Advanced Placement Chemistry Examination.

Prerequisite: Chemistry II.

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**AP ENVIRONMENTAL STUDIES** 🏋

Course: 153019 (AP) 1 credit

The AP Environmental Studies course is designed to cover one semester of an introductory college course in Environmental Science. Topics included in the course will be: (1) Interdependence of Earth’s Systems, (2) Human Population Dynamics, (3) Renewable and Non-renewable Sources, (4) Environmental Quality, (5) Global Changes, and (6) Environment and Society. Eighteen laboratories format content via the processes of science. Students are encouraged to sit for the College Board’s Advanced Placement Environmental Studies Examination.

Prerequisites and other notes: Biology. Chemistry II is recommended prior to this course.

**AP PHYSICS I** 🏋

Course: 155719 (AP) 1 credit

This course is an algebra based, college level, introductory physics course designed for students pursuing any majors in science related fields. The course will cover kinematics, mechanics, electricity/magnetism, and waves. Students are encouraged to sit for the College Board’s Advanced Placement Physics I exam.

Prerequisites and other notes: Biology and Geometry.

**AP PHYSICS C** 🏋

Course: 155619 (AP) 1 credit

This is a calculus-based physics course that is the equivalent of the first two semesters of college-level, calculus based physics for scientists and engineers. The course covers two main topics, mechanics, and electricity and magnetism. Students will be encouraged to sit for the AP Physics C exams in mechanics and electricity/magnetism.

Prerequisites and other notes: Biology, concurrently enrolled in or having completed Calculus, AP Physics I is highly recommended prior to this course.

**SOCIAL STUDIES**

# Suggested Course Sequence

|  |  |  |
| --- | --- | --- |
| **Grade 9/10** | **Grade 11** | **Grade 12** |
| * Government * U.S. History * Electives (10th grade only) | * World History * Electives | * Electives |

**GOVERNMENT** 🏋

Course: 100111 (Basic) 1 credit

100116 (Academic) 1 credit

**HONORS GOVERNMENT** 🏋

Course: 100118 (Honors) 1 credit

This course will develop the students’ understanding of the principles, institutions and processes of the United States’ political systems, how the United States government balances protecting rights with maintaining order, the advantages and disadvantages of different systems of government, the interdependence between the United States government and politics and world affairs, and the impact of geography and economics on government policy decisions. The topics and outcomes of this course reflect the parameters defined by MSDE’s Government High School Core Learning Goals, State Curriculum, and support student success on the Government High School Assessment, a graduation requirement.

Prerequisite and other notes: Recommended for grade 9; required for graduation. Students will have the opportunity to earn five (5) service-learning hours.

**AP UNITED STATES GOVERNMENT AND POLITICS** 🏋

Course: 100119 (AP) 1 credit

This course is designed to provide students with learning opportunities equivalent to those of a U.S. or comparative government and politics college-level course. Topics studied include: constitutional underpinnings of United States Government; political beliefs and behaviors; political parties, interest groups, and mass media; institutions of national government; public policy; civil rights and civil liberties. Throughout the study of these topics, students will know important facts, concepts, and theories about U.S. government and politics, understand the typical patterns of political processes and behaviors and their consequences, and analyze and interpret basic data pertinent to U.S. government and politics. Extensive writing and outside readings will be required of each student. Students are encouraged to sit for the College Board’s Advanced Placement United States Government and Politics Examination. Students taking this course must meet the graduation requirement for the Government High School Assessment by passing the Government High School Assessment or earning a 3, 4, or 5 on the Advanced Placement United States Government and Politics exam. Students are encouraged to sit for the College Board’s Advanced Placement United States Government and Politics Examination.

Prerequisites and other notes: Fulfills the graduation requirement for a course in Government.

**UNITED STATES HISTORY** 🏋

Course: 100311 (Basic) 1 credit

100316 (Academic) 1 credit

**HONORS UNITED STATES HISTORY** 🏋

Course: 100318 (Honors) 1 credit

The major purpose of this course is to enable pupils to relate past knowledge and experience to the history of the 20th century. Significant events of the 18th and 19th centuries will be reviewed. The events of the 20th century will be studied through the investigation of historic, geographic, political, economic, and social‑cultural themes.

Prerequisites and other notes: Recommended for grade 10 and 11; required for graduation. Ten (10) service-learning hours may be earned.

**AP UNITED STATES HISTORY** 🏋

Course: 100419 (AP) 1 credit

This course is designed to place demands on pupil’s equivalent to those of a college-level course in U.S. History. Topics studied include: Colonial period, American Revolution, Jacksonian democracy, Civil War and reconstruction, populism and progressivism, New Deal, and foreign and domestic affairs since 1945. Among other competencies to be developed by the student are: (1) an awareness of the consequences of United States actions in world events: (2) an ability to analyze historical documents and narratives, and (3) an understanding of the major challenges faced by the peoples of this nation in the past and present. Extensive interpretive writing will be expected of each student, in addition to outside reading. Students are encouraged to sit for the College Board’s Advanced Placement United States History Examination.

Prerequisites and other notes: Fulfills the graduation requirement for a course in United States History.

**WORLD HISTORY** 🏋

Course: 102111 (Basic) 1 credit

102116 (Academic) 1 credit

**HONORS WORLD HISTORY** 🏋

Course: 102118 (Honors) 1 credit

This course emphasizes significant changes that are considered turning points or benchmarks in world history from 1400 to the present. Study of historic, political, economic, geographic, and social perspectives and trends allows students to analyze the emergence and diffusion of civilizations, cultures and nations, and their contributions to the modern world.

Prerequisites and other notes: Recommended for grades 10-11. Required for graduation.

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**AP WORLD HISTORY** 🏋

Course: 102119 (AP) 1 credit

This course is designed for students to acquire a greater understanding of the development of global processes and associations based upon contacts that occur with a myriad of human societies. Students will study an amalgamation of judicious factual knowledge that incorporates analytical skills in order to highlight the disposition of transformations within international frameworks derived as the result of causes and consequences utilized as comparisons among major societies. The course will put emphasis on knowledge that is significant and factual. Students will be challenged to interpret issues in conjunction with historical evidence based on an understanding of cultural, institutional, and technological precedents combined with geography to set the human stage. Periodization will be overtly discussed to provide students with a thorough understanding of how principles are formed to deal with change with a focused consistent awareness to contacts among societies that form the core of world history as a field of study. Students are encouraged to sit for the College Board’s Advanced Placement World History Examination.

Prerequisites and other notes: Fulfills the graduation requirement for a course in World History. Students are encouraged to take World History as a prerequisite.

**AP EUROPEAN HISTORY** 🏋

Course: 100719 (AP) 1 credit

This course is designed to place demands on students which are equivalent to a college‑level course in European history. Students will develop a solid familiarity with the intellectual, philosophical, and historical background of European civilization. Among other competencies to be developed by the student are: (1) an awareness of the consequences of European contacts with the world, (2) an ability to analyze historical documents and narratives, and (3) an understanding of the major social and political forces which have changed in modern times and their effects on the modern world. Extensive interpretive writing will be expected of each student, in addition to outside reading. Students are encouraged to sit for the College Board’s Advanced Placement European History Examination.

Prerequisites and other notes: A course in World History is recommended for students who want to prepare for AP European History.

**AMERICAN REVOLUTION/CIVIL WAR** 🏋

Course: 103006 (Academic) ½ credit

This course provides students with an opportunity to investigate the causes, events and results of both conflicts. “American Revolution” will help students understand the revolt of the American colonists against the British. “Civil War” will help them examine the major battles, leaders, and weapons related to this era.

**ISSUES IN AMERICAN SOCIETY** 🏋

Course: 101506 (Academic) ½ credit

This course is designed to make the student aware, concerned, and active in the pursuit of solutions to issues and problems which confront Americans today. Students will learn and apply a systematic approach, the social investigation model, to examine and evaluate course issues. These issues are: crime, poverty, aging, and death. A number of views are presented to help students examine issues from different perspectives. A wide variety of resources are used to familiarize students with the issues analyzed. Students are expected to engage in class and group discussions.

Prerequisites and other notes: Recommended for grades 11-12. Students will have the opportunity to earn ten (10) service-learning hours.

**HONORS LAW, CITIZENSHIP, AND SOCIETY** 🏋

Course: 100308 (Honors) ½ credit

Through this course, the students will extend their knowledge of the civil and criminal law in the United States. They will deepen their understanding of the Constitution’s provisions for the judicial system and examine how the legal system balances rights while protecting society. The students will explore current and pertinent issues related to the justice and legal system.

Prerequisites and other notes: Recommended for grades 11-12.

**AP HUMAN GEOGRAPHY** 🏋

Course #: 106019 (AP) 1 credit

AP Human Geography facilitates the use of a students’ spatial reasoning to explain how people organize space. Through the course, students will learn to ask the geographer’s questions to guide their inquiry and employ the geographer’s tools, such as maps and geospatial data, to analyze and evaluate spatial patterns and relationships at different scales (ex. local v. global), within identified regions, and across the globe. The inquiries focus on the geographic organization of population, cultural patterns at various scales and interactions across scales, political organization of territory, impact of agriculture, industrial production, and economic development, and urbanization. At the conclusion of the course, students are encouraged to sit for the College Board’s Advanced Placement Human Geography Examination.

Prerequisites and other notes: Recommended for grades 10-12. A course in Geography is recommended for students who want to prepare for AP Human Geography.

**SOCIOLOGY** 🏋

Course: 105106 (Academic) ½ credit

This course covers the fundamentals of sociology. It includes the study of how groups relate to each other, how groups change, the role of the individual in groups, and how groups affect individual members. Students investigate the components of culture, social behaviors of individuals in society, and current social problems. A variety of learning techniques are utilized to meet the needs of students of all ability levels.

Prerequisites and other notes: Recommended for grades 10-12.

**AP MACROECONOMICS** 🏋

Course: 105419 (AP) 1 credit

AP Macroeconomics provides students an in-depth study of the fundamental concepts pertaining to scarcity and opportunity costs. Students will study comparative advantage in order to ascertain the basis on which mutually advantageous trade can exist between countries, in addition to the recognition of comparative advantage from differences in output levels and labor costs. Additional basic concepts to be investigated will include the functions executed by an economic system and mode for the tools of supply and demand can be utilized to analyze a market economy. Students are encouraged to sit for the College Board’s Advanced Placement Macroeconomics Examination.

Prerequisites and other notes: Completion of Honors Economics is preferred. This course may be taken as the final course in the Accounting and Business Administration and Management completer programs in lieu of Honors Business Education Capstone.

**PSYCHOLOGY I** 🏋

Course: 104216 (Academic) 1 credit

**HONORS PSYCHOLOGY I** 🏋

Course: 104218 (Honors) 1 credit

This course provides students with an opportunity to explore the connection between mind and behavior. Students explore how psychologists study human thought and behavior, the major ideas and theories of psychology, intelligence and cognition, human development, personality and psychological disorders. Students will apply the scientific method to explain human behavior and participate in open discussions on the various theories of psychology.

Prerequisites and other notes: Recommended for grades 10-12. Honors Psychology is recommended for students who want to

prepare for AP Psychology.

**AP PSYCHOLOGY** 🏋

Course: 104519 (AP) 1 credit

This course is designed for the student who wishes to continue exploring the field of psychology by studying such topics as developmental psychology, gender role development, personality theories, abnormal psychology, and treatment of psychological disorders. Students taking this course will have a solid background for college psychology. Students are encouraged to sit for the College Board’s Advanced Placement Psychology Examination.

Prerequisites and other notes: Completion of Honors Psychology I preferred.

**HONORS INDEPENDENT STUDY - SOCIAL STUDIES**

Course: 106608 (Honors) ½ credit

106618 (Honors) 1 credit

This course is for students who wish to prepare a project on a social studies topic of particular interest to them. Students hold weekly conferences with the teacher. This time is used to check progress, give assistance, and review research methods. For the most part, the student works independently on the preparation of a research project.

Prerequisites and other notes: Recommended for grade 12. Recommended for highly able students. Students taking this course must have had at least three (3) credits of social studies and possess appropriate research skills for independent study projects. Permission of the instructor and approval of principal are required.

**SPECIAL EDUCATION RESOURCE EDUCATION**

**LEARNING RESOURCE CLASSES**

Course: 956101 (Basic) English Tutorial ½ credit

956111 (Basic) English Tutorial 1 credit

956301 (Basic) Social Studies ½ credit

956311 (Basic) Social Studies 1 credit

956501 (Basic) Science ½ credit

956511 (Basic) Science 1 credit

956701 (Basic) Math Tutorial ½ credit

956711 (Basic) Math Tutorial 1 credit

956901 (Basic) General Tutorial ½ credit

956911 (Basic) General Tutorial 1 credit

This placement is designed for the student assigned by the IEP committee depending upon the needs identified in the Individualized Education Plan. The student will be taught how to process information, use content area materials, and be instructed in oral expression, written expression, listening comprehension, mathematics calculation and/or mathematics reasoning, basic reading and/or reading comprehension, social skills, and thinking skills.

Prerequisites and other notes: This course may be used to meet the State requirements for the Maryland High School Certificate and/or to supplement classes in English, Social Studies, Math or Science.

**VISION/BRAILLE READING AND WRITING CLASS**

Course: 950016 (Academic) 1 credit

The vision impaired/blind student will be taught how to increase speed in reading and writing of Braille. This includes the use of the Perkins Brailler, the Slate and Stylus, the Braille 'N Print, the Braille and Speak, and the computer keyboard converted to a Braille keyboard. Word processing skills using the Braille‑Edit Express (BEX) will be taught and reinforced. Instruction in the use of the tape recorder/player as a note‑taking device will be provided. Organization of all educational materials (textbooks on tape, notebooks, Braille material, large print materials) will be emphasized. The student will be taught how to improve listening comprehension, social skills, skills of daily living, and basic skills.

**ENGLISH 9 - ALTERNATIVE**

Course: 957111 (Basic) 1 credit

The outcomes of this course are aligned with the Maryland College and Career-Ready Standards - Alternative Framework. Students develop reading, writing, language, listening, and speaking skills through integrated instructional approaches using adapted and modified informational and literary texts with real world applications. Integrated instructional approaches include a focus on active reading, process writing, academic vocabulary, and grammatical structures. Through integrated and collaborative activities, students learn to respond to a text, compose in a variety of modes, and evaluate the content, organization, and language use of texts. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Plan (IEP). This course may not be used to meet the state graduation requirements.

**ENGLISH 10 - ALTERNATIVE**

Course: 957211 (Basic) 1 credit

The outcomes of this course are aligned with the Maryland College and Career-Ready Standards - Alternative Framework. Students develop reading, writing, language, listening, and speaking skills through integrated instructional approaches using adapted and modified informational and literary texts with real world applications. Integrated instructional approaches include a focus on active reading, process writing, academic vocabulary, and grammatical structures. Through integrated and collaborative activities, students learn to respond to a text, compose in a variety of modes, and evaluate the content, organization, and language use of texts. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Plan (IEP). This course may not be used to meet the state graduation requirements.

**ENGLISH 11 - ALTERNATIVE**

Course: 957311 (Basic) 1 credit

The outcomes of this course are aligned with the Maryland College and Career-Ready Standards - Alternative Framework. Students develop reading, writing, language, listening, and speaking skills through integrated instructional approaches using adapted and modified informational and literary texts with real world applications. Learning includes a variety of response methods to print and non-print media which helps students refine creative, research and critical analysis strategies. Students explore the devices authors use to reveal literal and metaphorical meaning, and to achieve purpose and effect. Students learn how to use and recognize language which effectively communicates experiences, ideas, and opinions and to appreciate the value of their own and others’ personal experiences and validity of drawing upon them for inspiration and learning. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Plan (IEP). This course may not be used to meet the state graduation requirements.

**ENGLISH 12 - ALTERNATIVE**

Course: 957411 (Basic) 1 credit

The outcomes of this course are aligned with the Maryland College and Career-Ready Standards - Alternative Framework. This course is designed to provide students access to the development of strategies for reading comprehension, vocabulary, language usage skills, and writing skills. Students will learn the skills to identify and analyze fiction and non-fiction literary texts. Students will engage in reading, writing, speaking and listening activities with real world application. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Plan (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials. This course may not be used to meet the state graduation requirements.

**MATHEMATICS 9 - ALTERNATIVE**

Course: 958111 (Basic) 1 credit

The outcomes of this course are aligned with the Maryland College and Career-Ready Standards - Alternative Framework. In this course students will learn algebraic functions to solve linear equations and inequalities with one variable: apply graphical and algebraic methods to analyze and solve systems of linear equations, and write and interpret real world application problems. Students will perform operations with polynomials including addition, subtraction, multiplying, dividing, and factoring. In addition, students will compare/contrast linear, exponential, and quadratic functions algebraically. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Plan (IEP). This course may not be used to meet the state graduation requirements.

**MATHEMATICS 10 - ALTERNATIVE**

Course: 958211 (Basic) 1 credit

The outcomes of this course are aligned with the Maryland College and Career-Ready Standards - Alternative Framework. In this course students will continue to learn algebraic functions to solve linear equations and exponential relationships by comparing and contrasting

them with each other and by applying linear models to real world data. Students will engage in methods for analyzing and solving systems of equations involving linear, exponential, and quadratic function. Students will solve equations and inequalities and examine data with one and two variables. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Plan (IEP). This course may not be used to meet the state graduation requirements.

**MATHEMATICS 11 - ALTERNATIVE**

Course: 958311 (Basic) 1 credit

The outcomes of this course are aligned with the Maryland College and Career-Ready Standards - Alternative Framework. In this course students will continue to learn algebraic functions, geometry, statistics, and probability using real world situations/data. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Plan (IEP). This course may not be used to meet the state graduation requirements.

**MATHEMATICS 12 - ALTERNATIVE**

Course: 958411 (Basic) 1 credit

The outcomes of this course are aligned with the Maryland College and Career-Ready Standards - Alternative Framework. This course is designed to help students work on personal finance issues as they transition from high school into the adult world and independent living. Students will gain knowledge and skills in the areas of income, money-management, consumer rights and responsibilities, spending, credit, saving, and investing. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Plan (IEP). This course may not be used to meet the state graduation requirements.

**INTEGRATING THE SCIENCES - ALTERNATIVE**

Course: 958511 (Basic) 1 credit

This course is designed to provide students access to the study of the basic topics in the four core disciplines of science - Physics, Earth Science, Chemistry, and Environmental Science. Major concepts studied include motion, forces, energy, electromagnetic radiation, earth’s surface and interior, solar system, properties of matter, atomic structure, periodic table, chemical bonds, acids and bases, carbon chemistry, interactions of organisms, and diversity of live and environmental issues of the world. Students will be engaged in inquiry based activities, making real world connections to mathematics, history, technology and society. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Plan (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials. This course may not be used to meet the state graduation requirements.

**BIOLOGY - ALTERNATIVE**

Course: 958611 (Basic) 1 credit

This course is designed to provide students access to study how living things function, develop, and interact within their environments. Instruction is designed to promote student inquiry through conducting investigations. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Plan (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials. This course may not be used to meet the state graduation requirements.

**ENVIRONMENTAL SCIENCE - ALTERNATIVE**

Course: 958711 (Basic) 1 credit

This course is designed to provide students access to basic topics in Environmental Science. Students will investigate the natural environment and the interrelationships among natural systems including biodiversity and population dynamics. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Plan (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials. This course may not be used to meet the state graduation requirements.

**SOCIAL STUDIES 9 – ALTERNATIVE**

Course: 959111 (Basic) 1 credit

The outcomes of this course are aligned with the Maryland College and Career-Ready Standards - Alternative Framework. This course is design to develop students’ understanding of principles, institutions and processes of the United States’ and local political systems. Students will learn significant events of the 18th, 19th, and 20th Centuries. Students will learn and investigate historic, geographic,

political, economic, and socio-cultural themes. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Plan (IEP). This course may not be used to meet the State graduation requirements.

**SOCIAL STUDIES 10 – ALTERNATIVE**

Course: 959211 (Basic) 1 credit

The outcomes of this course are aligned with the Maryland College and Career-Ready Standards - Alternative Framework. This course is design to develop students’ understanding of principles, institutions and processes of the United States’ and local political systems. Students will learn significant events of the 18th, 19th, and 20th Centuries. Students will learn and investigate historic, geographic, political, economic, and socio-cultural themes. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Plan (IEP). This course may not be used to meet the State graduation requirements.

**SOCIAL STUDIES 11 – ALTERNATIVE**

Course: 959311 (Basic) 1 credit

The outcomes of this course are aligned with the Maryland College and Career-Ready Standards - Alternative Framework. This course is design to develop students’ understanding of principles, institutions and processes of the United States’ and local political systems. Students will learn significant events of the 18th, 19th, and 20th Centuries. Students will learn and investigate historic, geographic, political, economic, and socio-cultural themes. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Plan (IEP). This course may not be used to meet the State graduation requirements.

**SOCIAL STUDIES 12 – ALTERNATIVE**

Course: 959411 (Basic) 1 credit

The outcomes of this course are aligned with the Maryland College and Career-Ready Standards - Alternative Framework. This course is design to develop students’ understanding of principles, institutions and processes of the United States’ and local political systems. Students will learn significant events of the 18th, 19th, and 20th Centuries. Students will learn and investigate historic, geographic, political, economic, and socio-cultural themes. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Plan (IEP). This course may not be used to meet the State graduation requirements.

**Technology Education**

**GRAPHIC COMMUNICATIONS**

Course: 455316 (Academic) 1 credit

Graphic communication systems include the design, layout, and production of visual messages. Students will use scanners, computer software, digital cameras, and original artwork to create professional posters, brochures, books, packages, and advertising materials. Students will learn about typography, design elements, electronic prepress, color management, and binding techniques. This course is for all students interested in graphic design, computer graphics, commercial art, publishing, and printing.

Prerequisites and other notes: Graphic Communications is part of the Print Production and Video Production completer programs. This course is offered at the comprehensive high schools.

**Advanced Design Applications**   
Course: 450316 (Academic) 1 credit

This course is comprised of four core technology and engineering units: Manufacturing Technologies, Energy and Power Technologies, Construction Technologies, and Transportation Technologies. Students participating in the course learn concepts and principles in an authentic, project-based learning environment utilizing Science, Technology, Engineering, and Mathematics (STEM) principles through hands-on applications and research.

Prerequisites and other notes: Foundations of Technology or Exploring Computer Science. This course partially satisfies the advanced technology credit.

**EXPLORING COMPUTER SCIENCE**

Course: 550116 (Academic) 1 credit

This course provides students the opportunity to engage with key content and conceptual ideas in the field of computer science. This focus will promote an understanding of why certain tools or languages might be utilized to solve particular problems. The goal is to develop in students the computational thinking practices of algorithm development, problem solving and programming in HTML and Python within the context of problems that are relevant. Students will also be introduced to topics such as interface design, limits of computers, and societal and ethical issues.

Prerequisites and other notes: Successful completion of this course satisfies the technology education graduation requirement.

**FOUNDATIONS OF TECHNOLOGY**

Course: 450216 (Academic) 1 credit

This course provides the fundamental knowledge and hands-on learning experiences for all students to advance their technological literacy. This class will focus on the study of the designed/human-made world. A technologically literate citizen has the ability to understand, use, manage, and assess technological products and processes. In this course, students will acquire knowledge and complete activities in the following areas of the designed world: agricultural and biotechnology; information and communication technology; manufacturing and construction technology; and, power, energy, and transportation technology. Students will also learn about the nature of technology, technological impacts, engineering design process, core technologies, problem solving techniques, and technological systems.

Prerequisites and other notes: Successful completion of this course satisfies the technology education graduation requirement.

**Technological Design**

Course: 451216 (Academic) 1 credit

Students in this course apply Science, Technology, Engineering, and Mathematics (STEM) concepts and skills to solve and innovate engineering designs. Students research, develop, test, and analyze engineering designs using criteria such as design effectiveness, public safety, human factors, and ethics. The course is comprised of five instructional units that focus on the following technologies: power and energy, mechanical, fluid, thermal, electrical, communication, manufacturing, construction, and transportation.

Prerequisites and other notes: Foundations of Technology or Exploring Computer Science. This course partially satisfies the advanced technology credit.

**TECHNOLOGICAL ISSUES AND IMPACTS**

Course: 451116 (Academic) 1 credit

This course focuses on the social, cultural, political, and environmental impacts of technology. Technology is neither good nor bad, but decisions about the use of technological products and processes can result in desirable or undesirable consequences. Students will learn that technology can have unintended consequences and that the development of technologies often poses ethical issues. Through design and problem solving activities, student teams will address complex issues and propose alternative solutions to technological developments. Sustainable development will be a focus. This course is for all students who are interested in issues regarding technological development, weighing the tradeoffs between the positive and negative effects.

Prerequisites and other notes: Foundations of Technology or Exploring Computer Science. This course partially satisfies the advanced technology credit.

**INDEPENDENT STUDY - TECHNOLOGY EDUCATION**

Course: 457206 (Academic) ½ credit

457216 (Academic) 1 credit

This course is designed for the student who has satisfactorily completed all the courses offered in a specific area of study and who wishes to work independently to acquire further knowledge and skills.

Prerequisites and other notes: Permission of the instructor and approval of the principal are required. This course partially satisfies the advanced technology credit.

**AP COMPUTER SCIENCE PRINCIPLES**

Course: 450519 (AP) 1 credit

AP Computer Science Principles (CSP) is a rigorous, entry-level course that introduces students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. This course is not a tour of current events and technologies. Rather, it seeks to provide students with a “future proof” foundation in computing principles so that they are adequately prepared with both the knowledge and skills to live and meaningfully participate in our increasingly digital society, economy, and culture.

Prerequisites and other notes:  This course satisfies the technology education graduation requirement.

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**World Languages**

**ESOL**

Course: 058306‑I (Academic) ½ credit

058316‑I (Academic) 1 credit

058406‑II (Academic) ½credit

058416‑II (Academic) 1 credit

058506‑III (Academic) ½ credit

058516‑III (Academic) 1 credit

058606‑IV (Academic) ½ credit

058616‑IV (Academic) 1 credit

These courses are designed for English language learners (ELLs) who have not yet met the criteria for exit from the ESOL Program in Carroll County. Students work in small groups to develop listening, speaking, reading, writing and content area skills.

Prerequisites and other notes: ESOL I and II may count towards world language credit if taken consecutively, or as elective credit. ESOL III and IV may only count towards elective credit, and can only be taken upon successful completion of ESOL I and II. Recommendation from ESOL Program/Designee is required for placements.

**FRENCH I** 🏋

Course: 702016 (Academic) 1 credit

As a building block for further study in French, the students will know and use the present and simple future tenses, as well as other basic grammatical concepts. The students will also ask and answer questions about personal information and daily life activities through teacher-student interaction and cooperative practice. The students will become aware of the value of learning a world language in a multicultural society. A variety of cultural topics pertinent to the francophone world will be introduced. Primary emphasis will be on speaking and listening, with integration of reading and writing.

**FRENCH II** 🏋

Course: 702316 (Academic) 1 credit

In French II, continued emphasis will be placed on speaking and listening, as well as integrating reading and writing. Students will learn and use the different past tenses and additional grammatical concepts. Students will continue to explore and discuss cultural topics as they relate to daily life and the francophone world. Supplementary activities and readings will be introduced. Daily opportunities for cooperative practice and interaction in French will take place.

Prerequisites and other notes: Successful completion of French I.

**HONORS FRENCH III** 🏋

Course: 702218 (Honors) 1 credit

Progressing along the language continuum, students in French III will continue to emphasize their oral, written, and aural skill. They will increase their proficiency, both communicatively and linguistically. The remaining indicative and subjunctive tenses will be covered. Students will explore, in greater depth, individual French-speaking regions and cultural-historical figures. Students will read and react to short stories, poems, and novels. Cooperative interaction in French will be a daily occurrence.

Prerequisites and other notes: Successful completion of French II.

**HONORS FRENCH IV** 🏋

Course: 702418 (Honors) 1 credit

Students enrolling in French IV will continue to improve their communicative and linguistic proficiency. Students will review and expand on all previously taught grammatical structures. Students actively use French in creative and practical situations on a daily basis. Units focusing on history, art, music, literature, and current events are presented. Students develop independent and collaborative projects based on the content of these units.

Prerequisites and other notes: Successful completion of Honors French III.

**GERMAN I** 🏋

Course: 703016 (Academic) 1 credit

As a building block for further study in German, the students will know and use the present tense and other basic grammatical concepts. The students will also ask and answer questions about personal information and daily life activities through teacher-student interaction and cooperative practice. The students will become aware of the value of learning a world language in a multicultural society. A variety of cultural topics will be introduced. Primary emphasis will be on speaking and listening, with integration of reading and writing.

**GERMAN II** 🏋

Course: 703116 (Academic) 1 credit

Continued emphasis will be placed on speaking and listening, as well as integrating reading and writing. In addition to practicing previously taught topics, students will know and use the past tense and other grammatical concepts. Daily opportunities will be provided for students to converse in German. A variety of cultural topics will be pursued as students further their study of German-speaking countries.

Prerequisites and other notes: Successful completion of German I.

**HONORS GERMAN III** 🏋

Course: 703218 (Honors) 1 credit

Students will achieve greater linguistic accuracy in reading, writing, listening, and speaking. An increased emphasis on grammar study will include additional past tense work and adjective agreement. Students will continue to converse daily as they utilize previously taught and current material. Writing skills will increase as students express their ideas and respond to various reading selections. Additional exposure to the German-speaking countries will be provided.

Prerequisites and other notes: Successful completion of German II.

**HONORS GERMAN IV** 🏋

Course: 703418 (Honors) 1 credit

Students enrolling in German IV will continue to improve their communicative and linguistic proficiency. Students will review and

expand on all previously taught grammatical structures. Students actively use German in creative and practical situations on a daily basis. Units focusing on history, art, music, literature, and current events are presented. Students develop independent and collaborative projects based on the content of these units.

Prerequisites and other notes: Successful completion of Honors German III.

**AP GERMAN LANGUAGE AND CULTURE** 🏋

Course: 703519 (AP) 1 credit

Students will continue to improve their communicative and linguistic proficiency. Advanced grammar topics will be addressed in addition to an intensive review of all previously taught concepts. Students are encouraged to sit for the College Board’s Advanced Placement German Language Examination.

Prerequisites and other notes: Successful completion of Honors German IV.

**SPANISH I**🏋

Course: 700016 (Academic) 1 credit

As a building block for further study in Spanish, the students will know and use the present tense and other basic grammatical concepts. The students will also ask and answer questions about personal information and daily life activities through teacher-student interaction and cooperative practice. The students will become aware of the value of learning a world language in a multicultural society. A variety of cultural topics pertinent to the Hispanic world will be introduced. Primary emphasis will be on speaking and listening with integration of reading and writing.

**SPANISH II** 🏋

Course: 700116 (Academic) 1 credit

As in Spanish I, the primary emphasis will be placed on listening and speaking activities. Students will be able to talk about events happening in the past. Students will have an opportunity on a daily basis for conversational practice. Specific topics of a cultural nature will continue to be addressed with special emphasis on the assimilation of Hispanic influence into mainstream United States society.

Prerequisites and other notes: Successful completion of Spanish I.

**HONORS SPANISH III** 🏋

Course: 700618 (Honors) 1 credit

Students will achieve greater linguistic accuracy in reading, writing, listening, and speaking. Increased emphasis on grammar study will include all indicative and subjunctive verb tenses. The students will communicate about the future and other uncertainties through cooperative learning activities. Additional exposure to Hispanic culture will be provided.

Prerequisites and other notes: Successful completion of Spanish II.

**HONORS SPANISH IV** 🏋

Course: 700318 (Honors) 1 credit

As in Spanish III, a high level of linguistic accuracy is expected. The students will review and expand on all previously taught grammatical structures. The study of culture is further stimulated by the in-depth study of literature, geography, history, and art. Based on these units, students will develop individual and group projects. Students will express themselves in both oral and written formats. Opportunity will be provided for both individual and group activities.

Prerequisites and other notes: Successful completion of Honors Spanish III.

**AP SPANISH LANGUAGEAND CULTURE** 🏋

Course: 700719 (AP) 1 credit

Students will continue to improve their communicative and linguistic proficiency. Advanced grammar topics will be addressed in addition to an intensive review of all previously taught concepts. Students are encouraged to sit for the College Board’s Advanced Placement Spanish Language Examination.

Prerequisites and other notes: Successful completion of Honors Spanish IV.

**INDEPENDENT STUDY - WORLD LANGUAGES**

Course: 700506 (Academic) ½ credit

Course 700516 (Academic) 1 credit

This course is designed for those students who have completed their world language graduation requirement and wish to pursue the study of a world language not offered at the high school. Students must have fulfilled their World Language graduation requirement as this is an elective credit. It is an individualized course and students may contract for a grade.

Prerequisites and other notes: Principal’s approval is required.

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