

Section IV

Course Descriptions



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Agricultural Science

881 Agricultural Science I 1 Credit

Agricultural Science I (9-12) is an elective course which is exploratory in nature and includes units of study on the origins, structures, and functions of living things. Agriculture career opportunities, leadership programs and record keeping are introduced at this level. The instruction and practice received in agriculture mechanics involve skills, techniques, identification, and proper use of agricultural equipment and tools. This course is available only at Fort Hill High School.

882 Agricultural Science II 1 Credit

Prerequisite: Agricultural Science I (881)

Agricultural Science II (10-12) is an elective course designed to develop knowledge, skills and techniques involved in the production and processing of plant and animal products. This course is available only at Fort Hill High School.

883M Agricultural Science III

1 Credit

Prerequisites: Agricultural Science I and II (881, 882)

Agricultural Science III (11-12) is an elective course which qualifies for Certificate of Merit credit. This course offers instruction in agriculture business and/or agriculture mechanics. Students have the opportunities to participate in work-based learning activities during the school year and the summer. Agriculture mechanics will include instruction in farm power, small engine, welding, electricity, soil and water management, and plumbing. Units in Environmental and Natural Resources are included. This course is available only at Fort Hill High School.

884M Agricultural Science IV

1 Credit

Prerequisites: Agricultural Science I, II, III (881, 882, 883/883M)

Agricultural Science IV (12) is an elective course which qualifies for Certificate of Merit credit. This course focuses on agricultural management and economics needed to operate an agricultural business or enterprise. Agriculture mechanics includes instruction in farm machinery, farm building construction and design, agricultural use of concrete, and fence construction. Special units in horticulture, floriculture, forestry, and conservation may be included in the curriculum. This course is available only at Fort Hill High School.

Art

511 Art I

1 Credit

Art I (9-12) is an elective course designed to provide an initial high school art experience. Students will become aware of natural and man-made art forms in their environment as well as explore cultural and historical artistic heritage. Students will learn to use the elements and principles of design by incorporating various tools and techniques in the production of works. Skills developed in Art I can enrich leisure time or lead to advanced study.

512 Art II

1 Credit

Prerequisite: Art I (511)

Art II (10-12) is an elective course which continues to develop students' awareness of art heritage as it reflects, records and plays a role in every culture. Activities will cover a wide range of media in an effort to develop individual artistic technique, self-image and appreciation of other expressions of art.

Art

513/513M Art III

1 Credit

Prerequisites: Art I and II (511, 512)

Art III (11-12) is an elective Certificate of Merit course in which emphasis is placed on identifying the elements and principles of design in the environment and in student artistic efforts. Students will identify cultural and historical influences of art heritage and its relationship to personal creativity. Students will be presented with an in depth study of numerous media and techniques to enable them to effectively translate their ideas, feelings and emotions to create their own personal artistic style.

514/514M Art IV

1 Credit

Prerequisites: Art I, II, III (511, 512, 513/513M)

Art IV (12) is an elective Certificate of Merit course which encourages students to explore individual interests and ideas in a studio atmosphere. Through a variety of media, students will develop the potential to interpret and utilize aesthetic aspects in works of art. Emphasis will be placed upon analysis of the elements and principles of design. This course will synthesize artistic knowledge, production skills, and criticism to develop a high level of artistic understanding.

Business Education

803M Management/Entrepreneurship **1 Credit**

Management and Entrepreneurship (11-12) is a course designed for students interested in starting a small business or striving for a management position at the corporate level. Students will be given a solid foundation in organizing, operating, and managing a business. This course covers the entire spectrum of entrepreneurship, ranging from the business plan to computers and from marketing research to social responsibilities. It is designed to acquaint students with the risk taking involved in operating a business and presents a career path for management of business.

813M Business Law **1/2 Credit**

Business Law (11-12) is an elective Certificate of Merit course designed to enable students to understand basic legal rights and responsibilities, to understand the purpose and use of legal documents, to demonstrate decision-making skills and to apply them in solving frequently encountered legal situations. Applications learned will be common to daily life as an aid in avoiding legal difficulties. Students will develop a respect for law and constituted authority.

814M Office Technology **1 Credit**

Prerequisite: Document Processing I

Office Technology (11-12) is an elective Certificate of Merit course which provides students with experience in using computers, calculators, and other automated office equipment. Software includes advanced word processing, spreadsheets, and database management, PowerPoint, and web page design. Enrichment units on records management, decision-making, human relations, telephone techniques, and employment skills are included to assist students in preparing for entry-level positions. Opportunity for work-based learning is available. Document Processing is a prerequisite for this course and/or consent of the teacher.

821 Document Processing I **1/2 Credit**

Document Processing I (10-12) is a one-semester course designed to develop competencies in touch keyboard techniques essential for the efficient use of microcomputers and other keyboard devices. Students will apply their touch keyboarding skill to basic word processing documents using Microsoft Word software. This course focuses on formatting and editing basic correspondence and reports and serves as a foundation for more advanced word processing and other software applications.

Business Education

822M Document Processing II **1/2 Credit**

Prerequisite: Document Processing I

Document Processing II (10-12) is a one-semester course designed to develop competencies in advanced word processing and other computer software applications. Students have the opportunity to apply knowledge and skills through projects and simulation sets.

823M Business Finance **1 Credit**

Business Finance (11-12) is an elective Certificate of Merit course designed to present the fundamental principles of financial decision-making in a business environment. Banking, investing, borrowing, and insurance are core content areas of study for this course. Students will gain knowledge and understanding of revenue, expense, credit, and money management to enable them to make informed decisions in a highly technical and competitive society. Students will develop competencies in the use of Microsoft Excel.

824M Business Computer Applications **1 Credit**

Prerequisite: Document Processing I & II

Business Computer Applications (11-12) is an elective Certificate of Merit course designed to develop advanced computer skills Microsoft Word, Excel, Access, PowerPoint and Publisher. Students have the opportunity to obtain MOS certification in the Microsoft Office Suite applications.

833M Business Communications **1 Credit**

Business Communications (11-12) is an elective Certificate of Merit semester course of written and oral communication and to provide them with the reading, listening, speaking, and writing practice they will need to succeed in any business situation. Practical experience is provided in writing various forms of communication such as letters, reports, memos, and resumes in addition to addressing the issues of human relations and communication technology. The students will also learn how to apply communication skills and talents toward seeking employment.

Business Education

843 Accounting I

1 Credit

Accounting I (11-12) is an elective course designed to prepare students to enter the world of business as entry-level accounting workers and provides the foundation for advanced study in accounting. The curriculum addresses principles, concepts, and procedures of basic accounting developed through problems, projects, business simulation sets, and basic accounting software.

844M Accounting II

1 Credit

Prerequisite: Accounting I (843)

Accounting II (12) is an elective Certificate of Merit course designed to further prepare students to enter the world of business. Advanced skills in the principles, concepts and procedures of basic accounting are emphasized through problems, projects, business simulation sets and basic accounting software.

Career and Technology Education (CCTE)

908, 909M

6 Credits

Masonry and Equipment Operation

Masonry and Equipment Operation (11-12) is an elective program at the Center for Career and Technical Education (CCTE) in which students learn to lay brick, block, and stone in various patterns. Included in the curriculum is the construction of arches, columns, piers, flues, and glass block. House and garage construction is also included. Students also receive instruction and training on the safe operation of Skid Steer Loaders (Bobcats). A partnership with the Operating Engineers provides opportunities for successful students to enter an apprenticeship program with Local 37. Opportunity is provided for students to participate in community projects. Students are taken to a job site where they receive the ultimate "hands-on" experience as they construct an entire house. The second year of the program qualifies for Certificate of Merit credit. Seniors who have successfully completed all academic requirements except English IV may earn a certificate in one year by attending CCTE on a full-time schedule.

910, 911M

6 Credits

Carpentry

Carpentry (11-12) is an elective program at the Center for the Career and Technical Education (CCTE) which provides students with classroom, shop and on-the-job experience working with tools and materials. Instructional units include layout, fabrication, assembly, installation, and the repair of structural units. Students learn blueprint reading, layout techniques, construction techniques, use of building materials, hand and power tool safety, and trim/finish work. Advanced students are encouraged to develop independent skills in form construction and work with commercial specifications. Students are taken to a job site where they receive the ultimate "hands-on" experience as they construct an entire house. The second year of the program qualifies for Certificate of Merit credit. Seniors who have successfully completed all academic requirements except English IV may earn a certificate in one year by attending CCTE on a full-time schedule. Successful students are guaranteed an interview with Local #1024 United Brotherhood of Carpenters and Joiners of America. If successful, credit towards an apprenticeship program is given.

Career and Technology Education (CCTE)

912, 913M

6 Credits

Law Enforcement/Public Safety

Law, Public Safety and Security (11-12) is an elective completer program at the Center for Career and Technical Education (CCTE) which prepares students for careers in planning, managing, and providing legal, public safety, protective services and homeland security including professional and technical support services. The program will cover the following pathways: Correction Services, Emergency and Fire Management Services, Security and Protective Services, Law Enforcement Services, and Legal Services. Students will participate in career development and work-based learning activities. The second year of the program qualifies for Certificate of Merit credit. Seniors who have successfully completed all academic requirements, except English IV may earn a certificate in one year by attending CCTE on a full-time schedule. Successful students are eligible for articulated credits in the Criminal Justice program at Allegany College of Maryland.

914M Fire and Rescue

4 Credits

Fire and Rescue (11-12) is an elective one-year program at the Center for Career and Technical Education (CCTE) designed to provide students with entry skills and instruction in Fire/Rescue and related areas. Classroom instruction and training will be provided by instructors from the Maryland Fire and Rescue Institute (MFRI) of the University of Maryland. The following represents the core set of courses required for certification in the Fire/Rescue programs: Emergency Medical Technician, Fire Fighter I, Incident Management System, Emergency Response to Terrorism, Hazardous Materials Operations, Fire Fighter II, Rescue Technician-Site Operations and Vehicle and Machinery Rescue. Successful students are eligible for articulated credits in the Fire Science/Fire Management program at Anne Arundel Community College.

Career and Technology Education (CCTE)

918, 919M **6 Credits** **Heating, Ventilation & Air Conditioning (HVAC)**

Heating, Ventilation and Air Conditioning (HVAC) (11-12) is an elective program at the Center for Career and Technical Education (CCTE) designed to provide students with entry level skills and instruction in the basic principles of refrigeration, air conditioning, heating, and plumbing. Instruction includes basic principles in heat movement and transfer, evaporation, refrigeration, electricity, plumbing, and supply systems. Students are taken to a job site where they receive the ultimate "hands-on" experience as they construct an entire house. Senior students who meet specified conditions are guaranteed an interview with Local #489 of the Plumbers and Steamfitters Union. The second year of the program qualifies for Certificate of Merit credit. Seniors who have successfully completed all academic requirements except English IV may earn a certificate in one year by attending CCTE on a full-time schedule.

920, 921M **6 Credits** **Graphic Communications**

Graphic Communications (11-12) is an elective program at the Center for Career and Technical Education (CCTE), designed to teach students entry level skills in the printing/graphic arts field. Proper safety practices, mechanical layout, desktop publishing, digital photography, line camera, darkroom uses, offset printing, and introduction to screen printing. See how digital scanning is used for on demand black and white digital printing. The second year of the program qualifies for Certificate of Merit credit. Seniors who have successfully completed all academic requirements except English IV may earn a certificate in one year by attending CCTE on a full-time schedule. Successful students are eligible for articulated credits in the Communication Arts program at Allegany College of Maryland.

Career and Technology Education (CCTE)

922, 923M **6 Credits** **Welding and Metal Technology**

Welding and Metal Technology (11-12) is an elective program at the Center for Career and Technical Education (CCTE) which includes the study of joining metals with various welding processes and methods, welding symbols, schematic and blueprint reading, materials and measurements and cost estimation. Students will be exposed to and use the latest welders, press brakes, shears, pipe benders, lathes, mills, robotic welding arms, computer controlled cantilever cutters, plasma cutters, oxyfuel welding and cutting torches. The second year of the program qualifies for Certificate of Merit credit. Seniors who have successfully completed all academic requirements except English IV may earn a certificate in one year by attending CCTE on a full-time schedule. Students after successful completion, qualify for entry level within the trades. Successful students are guaranteed an interview with Local #489 of Plumbers & Steamfitters Union. If successful, credit towards an apprenticeship program is given.

924, 925M **6 Credits** **Computer Information Technology**

Computer Information Technology (CIT) (11-12) is an elective program at the Center for Career and Technical Education (CCTE) which explores computer systems, such as Windows and DOS, and computer software, for example the Microsoft Office package including Word, Excel, Access, PowerPoint and Publisher. Basic Web Page design and Internet education are also offered. Students become trained to receive their Microsoft Office User Specialist (MOS) certification. Level two students experience an internship prior to completing the program. The second year of the program qualifies for Certificate of Merit credit. Students with an interest in a career as a medical secretary will be given an opportunity for training in that field. Seniors who have successfully completed all academic requirements except English IV may earn a certificate in one year by attending CCTE on a full-time schedule. CIT offers Articulation Agreements with Allegany College in both the Office Technology and Computer Technology areas.

Career and Technology Education (CCTE)

928, 929M

4 Credits

Health Occupations

Health Occupations (11-12) is an elective program at the Center for Career and Technical Education (CCTE). Students will have the opportunity to gain the knowledge required to become a quality health care professional. Students will participate in nursing assisting skills, anatomy and physiology, medical terminology, professional development, teamwork skills, CPR, and first aid. The program also includes the HOSA organization and an internship at local health care facilities. Successful completion of the program provides students with certification as a Nurse Assistant and eligibility to take the Geriatric Nursing Assistant examination. Successful students will also be eligible for guaranteed admission, with specific conditions, to one of the Allied Health programs at Allegany College of Maryland. Health Occupations students are required to take Medical Terminology I and II as part of the Completer sequence. These courses then provide students with a basic knowledge of the language of medicine and an understanding of how complex medical terms are formed. Successful completion of Medical Terminology I and Medical Terminology II give students an opportunity to earn credit in the LPN program offered in Mineral County.

926 Medical Terminology I 1 Credit

(Take with 928)

927M Medical Terminology II 1 Credit

(Take with 929M)

930, 931M

6 Credits

IT & Networking Academy

IT & Networking Academy (11-12) is an elective program at the Center for Career and Technical Education (CCTE). The program is designed to provide students with the basic set of skills necessary to obtain an entry level position as an information technology technician. The course is designed around the requirements of industry's recognized national certification exam known as the A+ Certification. Students successfully completing this program will be prepared to obtain the A+ Certification. Students learn system operation, software applications, basic electricity, hardware operations of peripheral devices, multimedia devices, service operation administration, use of vendor diagnostics, troubleshooting techniques, communication basics, and the operations of network systems.

Career and Technology Education (CCTE)

932, 933M

6 Credits

Electrical Construction and Maintenance

Electrical Construction and Maintenance (11-12) is an elective program at the Center for Career and Technical Education (CCTE) which prepares the student to install, operate, maintain, and repair electrically energized systems in residential, commercial and industrial settings. Students learn methods of wiring, how to read diagrams, schematics, and blue prints, electrical safety, electric motor control wiring, and residential wiring. Students are taken to a job site where they receive the ultimate "hands-on" experience as they construct an entire house. Advanced students learn how to produce schematics and complete a course in Industrial Motor Control. Each advanced student is required to complete a project in motor control. An articulation agreement with Local #307, International Brotherhood of Electrical Workers has been established for second year students. If successful in program, participant is eligible for an interview for apprenticeship. The second year of the program qualifies for Certificate of Merit credit. Seniors who have successfully completed all academic requirements except English IV may earn a certificate in one year by attending CCTE on a full-time schedule.

942, 943M, 940, 941M, 962M 6 Credits

Industrial Manufacturing

Industrial Manufacturing (11-12) is an elective program at the Center for Career and Technical Education (CCTE) in which students set up and operate machines commonly used in the machine trades including engine lathes, milling machines, drill presses, precision grinders, shapers, and power saws. Students learn how to operate in work teams as they study product design, environmental and safety science, computer-assisted drafting (CAD) (941 and 941M), computer-assisted manufacturing, equipment operation and quality control. Advanced students learn computer controlled machines in addition to basic training. The second year of the program qualifies for Certificate of Merit credit. Seniors who have successfully completed all academic requirements except English IV may earn a certificate in one year by attending CCTE on a full-time schedule. Successful students are guaranteed an interview with Local #1024 United Brotherhood of Carpenters and Joiners of America. If successful, credit towards an apprenticeship program is given.

Career and Technology Education (CCTE)

952M, 961M, 962M, 963M, 971M Engineering Technology (PLTW)

PLTW is a sequence of courses which when combined with traditional math and science courses introduces students to the scope, rigor and discipline for engineering and engineering technology. This occupational completer program offered at the Center for Career & Technical Education (CCTE) will allow students, while still in high school, to determine if engineering is a career they want to pursue. The CCTE engineering technology graduates will be better prepared for college engineering programs and more likely to succeed in college and/or immediate employment. Successful students are eligible for articulated credits at Fairmont State College and Pennsylvania College of Technology. Over the two-year program at CCTE, Engineering Technology (PLTW) students will complete the following courses:

963M Prin. of Engineering-Completer 473M Principles of Engineering-Sci

Principles of Engineering (11-12) is a Certificate of Merit course that helps students understand the field of engineering/engineering technology. This course is a required course for the Engineering Technology Completer Program or it may be counted as a Science credit, however, it cannot be both. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people.

961M Introduction to Engineering Design

Introduction to Engineering Design (11-12) is a Certificate of Merit course that involves problem solving skills using a design development process. This course is a required course for the Engineering Technology Completer Program. Models of product solutions are created, analyzed and communicated using solid modeling computer design software.

971M Digital Electronics-Completer 484M Digital Electronics-Sci

Digital Electronics (12) is a Certificate of Merit course that uses applied logic which encompasses the application of electronic circuits and devices. This course is a required course for the Engineering Technology Completer Program or it may be counted as a Science credit, however, it cannot be both. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices.

Career and Technology Education (CCTE)

5 Credits

962M Computer Integrated Manufacturing

Computer Integrated Manufacturing (12) is a Certificate of Merit course that applies principles of robotics and automation. This course is a required course for the Engineering Technology Completer Program. This course builds on computer solid modeling skills developed in Introduction to Engineering Design, and Design and Drawing for Production. Students use CNC equipment to produce actual models of their three-dimensional designs. Fundamental concepts of robotics used in automated manufacturing and design analysis are included.

952M Engineering Design & Develop-Completer 494M Engineering Design & Develop-Sci

Engineering Design and Development (12) is a Certificate of Merit course that requires students to work in teams to research, design and construct a solution to an open-ended engineering problem. This course is a required course for the Engineering Technology Completer Program or it may be counted as a Science credit, however, it cannot be both. Students apply principles developed in the four preceding courses and are guided by a community mentor. They must present progress reports, submit a final written report and defend their solutions to a panel of outside reviewers at the end of the school year. Internships will be integral part of the senior course.

Career and Technology Education (CCTE)

980, 981M, 982, 983M, 984, 985M

6 Credits

Culinary Arts

Culinary Arts is an elective program at the Center for Career & Technical Education (CCTE) designed to prepare students for successful careers in the food and beverage industry. Students will progress through a program that includes hands-on education in food production, while developing professionalism and proficiency in cooking, baking, cost control, nutrition, sanitation and food marketing. Students will gain practical experience in a school-based restaurant and/or work-based learning in the culinary industry. The program will also include a hospitality/tourism/lodging management component. Students who are Culinary Arts Completers at the Career Center are eligible to earn articulated credit in the Culinary Arts and Hotel and Restaurant Management program at Allegany College of Maryland. Students are also eligible to earn articulated credit at the Baltimore International College upon meeting all criteria.

Computer Science

031 Computer Literacy 1 Credit

Computer Literacy (9-12) is an elective course which provides an introduction to Computer Science. The course emphasizes computer information systems, hardware and software, programming, computer operating systems, and software applications. Several software applications are used to allow students an opportunity to gain hands-on experience with micro-computers. Use of the internet is also included in the course content.

032M Computer Logic 1 Credit

Prerequisite or Concurrent: Computer Literacy (031)

Computer Logic (11-12) is an elective Certificate of Merit course which provides the student with an introductory experience with computer programming. This course will enforce good programming style, logical thinking, and problem solving skills, flowcharting, and software engineering. In addition, a visual programming language will be used to introduce object-oriented programming concepts.

033M C++ Programming 1/2 Credit

Prerequisite: Early College Admission

C Programming (12) is an elective, dual enrollment Certificate of Merit course which provides students with an introduction to C and C++ Programming language. Topics include data typing, operators, expressions, control flow, functions, pointers, arrays, structures, input/output methods, objects, classes, and inheritance. This course is offered at Allegany College of Maryland as Computer Technology 218. Students must meet early college admission requirements.

034M Microcomputer Applications I 1/2 Credit

Prerequisite: Early College Admission

Microcomputer Applications I (12) is an elective, dual enrollment Certificate of Merit course which provides students with an introduction to several of the more popular computer applications in use today. Students will gain experience using Windows concepts, spreadsheet, database management, computer presentation, Internet, and business-oriented software applications. This course is offered at Allegany College of Maryland as Computer Technology 221. Students must meet early college admission requirements.

Computer Science

035 Web Design I 1 Credit

Prerequisite: Computer Literacy (031) OR Document Processing I & II

Web Design I (10-12) is an elective course designed to acquaint students with basic web design skills. From basic HTML code through dynamic and exciting web site design, students are taught the essential skills necessary to conceptualize, create, and publish a professional website to the Internet. The course uses hands on approach to creating dynamic web sites using the latest Web technologies. Students learn how to make web pages look aesthetically pleasing and to include elements that make them handicapped accessible. Students learn how to implement their web pages to the web through FTP (File transfer protocol) and to add graphics, forms, tables, links, sound, and movement to their web pages.

036M Web Design II 1 Credit

Prerequisite: Web Design I (035)

Web Design II (10-12) is an elective course which is designed to expand students' knowledge of web design with emphasis on maintaining and improving the school's website using Dreamweaver, Flash and Fireworks software. From basic HTML code through dynamic and exciting web site design, students are taught the advanced skills necessary to conceptualize, create, and publish a professional website to the Internet. The course uses a hands-on approach to creating dynamic web sites using the latest Web technologies. Students learn how to make web pages look aesthetically pleasing and to include elements that make them handicapped accessible. Students learn how to implement their web pages to the web through FTP (file transfer protocol) and to add graphics, forms, tables, links, sound, and movement to their web pages.

English/ Language Arts

019 College Test Prep 1/2 Credit

College Test Prep (11-12) is an elective subject offered in selected schools. Emphasis in the course is placed on test-taking skills and sample content questions similar to test items on the newly revised Scholastic Aptitude Test (SAT) and the American College Test (ACT).

042 Journalism I 1 Credit

Journalism I (10-12) is an elective course offered to students interested in learning the basics of journalism. Emphasis is on copy writing, development of editing skills, photography, design, desktop publishing and graphics programs, and financial management. Skills are utilized when students pursue more intense study in the production of a newspaper or yearbook/magazine.

043M Journalism II 1 Credit

Journalism II (11-12) is an elective Certificate of Merit course in which students may choose to study newspaper/magazine or yearbook. Students learn to write news, feature stories, editorial, and sports stories, as well as advertising copy. They plan layouts, edit copy, proofread, design graphics, and use desktop publishing programs to create a product.

044M Journalism III 1 Credit ***Prerequisite: Journalism II (043M)***

Journalism III (12) is an elective Certificate of Merit course in which students produce a newspaper or yearbook. Students employ the skills and concepts learned in Journalism I and II. They write, design, edit, and finance the production. Students must have successfully completed Journalism II before serving in an editorial capacity on the staff.

121 Developmental Reading 9 1 Credit

Developmental Reading 9 is a remedial reading course designed for students who read significantly below grade level and score at the basic level on the MSA Reading 8. Students will receive instruction in a research-based program that addresses decoding, comprehension and fluency skills. The course qualifies as one elective credit. It does not fulfill the English I requirement.

English/ Language Arts

122 Developmental Reading 10 1 Credit

Developmental Reading 10 is the continuation of Developmental Reading 9. Students who demonstrate a need for additional reading instruction will qualify for this course. Students will continue to receive instruction in the program begun in 9th grade. This course qualifies for one elective credit. It does not fulfill the English II requirement.

125 HSA English Prep 0 Credit

HSA English Prep is a one semester course for students who score at the basic level on the English High School Assessment. This course is designed to remediate the reading, writing, and language skills needed to perform successfully on the English HSA, which is a requirement for graduation.

131M Honors English 1 1 Credit

Honors English 1 (9) is an elective Honors course which fulfills the English 1 requirement. There is an intensified focus on the areas of literary analysis, composition, and critical thinking. The Maryland Content Standards and the Core Learning Goals for English dictate the skills covered in this class, as well as the College Board's recommended course of study for Pre-AP English. Rigorous pacing and complexity of issues will challenge students capable of higher-level thinking. The coursework is arranged thematically with an emphasis on literary genres. This class is a prerequisite for students considering the Honors English 2 class. Completion of summer reading and writing assignments prior to the class is strongly recommended in the Honors program.

132M Honors English 2 1 Credit

Honors English 2 (10) is an elective Honors course which fulfills the English 2 requirement. There is an intensified focus on the areas of literary analysis, composition, and critical thinking. The Maryland Content Standards and the Core Learning Goals for English, as well as the College Board's recommended course of study for Pre-AP English, dictate the skills covered. Rigorous pacing and complexity of issues will challenge students capable of higher level thinking. Students will write essays of a greater length and sophistication than that of an English II class, demonstrate the proper use of MLA format in all research, and read and analyze a higher level of world literature in terms of language, literary elements and thematic content. This class is a prerequisite for students considering the AP English Literature and/or the AP English Language classes at the 11th and 12th grade levels. Successful completion of summer reading and writing assignments prior to the class is strongly recommended in the Honors program.

English/ Language Arts

133M AP English Language & Composition (Advanced Placement)

1 Credit

Prerequisite: English 2 (132M)

Advanced Placement English Language and Composition (11-12) is an elective Honors course which fulfills the English 3 or 4 requirement. It is designed to help students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. Skill in writing follows from students' awareness of their own composing process: the way they explore ideas, reconsider strategies, and revise their work. This process is the essence of the AP English Language and Composition course. Successful completion of summer reading and writing assignments prior to the class is strongly recommended.

134M College English **1/2 Credit**

Prerequisite: Appropriate placement assessment scores for reading and writing.

Corequisite: Reading 93 may be taken concurrently with English 101 as a corequisite if all other prerequisites have been met.

The students are introduced to different modes of exposition, including narration, comparison/contrast, and cause and effect. The brief essay is emphasized. Students are also instructed in the use of the library and basic research tools, emphasizing documentation of sources and avoidance of plagiarism. A final essay and objective examinations are required. Credit may be conferred by way of the CLEP general examination in English composition (with essay). Students seeking to earn credit by examination should consult their advisors.

English/ Language Arts

135M College Intro to Lit (FSU)

1/2 Credit

A thematic study of literature, looking across genres and cultures at contemporary topics. Continued development of writing skills.

136M College Speech (ACM)

1/2 Credit

A survey course incorporating intrapersonal, interpersonal, and public speaking. A student will acquire theory and develop skills in interviewing, small group discussing, and informative/persuasive speaking.

141, 141M English 1 **1 Credit**

English 1 (9) is a required subject for all students in grade 9 and may be elected as a Certificate of Merit course. The Maryland Content Standards and the Core Learning Goals for English dictate the skills covered in this class. Students write narrative, explanatory, descriptive, and persuasive essays, as well as short research papers. Students study poetry, short stories, nonfiction, and fiction in order to have a fuller understanding of communication. To fulfill state requirements, and to prepare for the English High School Assessment, all classes meet or exceed the assessment limits for the English Core Learning goals.

English/ Language Arts

142, 142M English 2 1 Credit

English 2 (10) is a required subject for all students in grade 10 and may be elected as a Certificate of Merit course. English 2 is designed to enable students to gain conscious control of their language and to help pupils enjoy language as an art and entertainment. The literary focus is world literature. Dialectology is studied, and grammar and mechanics are reviewed. Students write essays, prepare speeches, interpret literature, and critique media. In addition, as in English 1, students will prepare for the Maryland High School Assessment in English. To fulfill state requirements, all classes meet or exceed the assessment limits for the English Core Learning goals.

143, 143M English 3 1 Credit

English 3 (11) is a required subject for all students in grade 11 and may be elected as a Certificate of Merit course. Students are involved in an integrated language arts program that includes writing expository and persuasive essays, and a research paper. The literary focus is American literature. The Maryland Content Standards and the Core Learning Goals for English dictate the skills covered in this class and assistance will be given to students who have not achieved a proficient score on the English High School Assessment.

144, 144M English 4 1 Credit

English 4 (12) is a required subject for all students in grade 12 and may be elected as a Certificate of Merit course. English 4 is designed to enable students to gain conscious control of their language and to help pupils enjoy language as an art and entertainment. The literary focus is British literature. Students write essays, prepare speeches, interpret literature, and critique media. The Maryland Content Standards and the Core Learning Goals for English dictate the skills covered in this class and assistance will be given to students who have not achieved a proficient score on the English High School Assessment.

English/ Language Arts

145M AP English Literature & Composition (Advanced Placement) 1 Credit

Prerequisite: English 2 (132M)

AP English Literature and Composition (11-12) is an elective Honors course which fulfills the English 3 or 4 requirement. It is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students will consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Writing is an integral part of this course, for the AP examination is weighted toward student writing about literature. Writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays. Successful completion of summer reading and writing assignments prior to the class is strongly recommended.

163M American Novel I 1/2 Credit

American Novel I (11-12) is an elective Certificate of Merit course in which students are expected to gain an understanding of an author's writing style and factors influencing the themes and techniques used in the novel. The in-depth study emphasizes the works of such novelists as Baldwin, Cather, Faulkner, Fitzgerald, Hemingway, Hurston, James, Melville, Steinbeck, and Twain.

164M American Novel II 1/2 Credit

American Novel II (11-12) is an elective Certificate of Merit course in which students are expected to gain an understanding of an author's writing style and factors influencing the themes and techniques used in the novel. The in-depth study emphasizes the works of such novelists as Bradbury, Cather, Crane, Faulkner, Hemingway, Morrison, Steinbeck, Wharton, Wolfe, and Wright.

ESOL

(English for Speakers of
Other Languages)

151, 152, 154, and 155 ESOL I-IV

1 Credit each

ESOL (English for Speakers of Other Languages) I-IV provides limited and non-English speaking students assistance in adjusting to the school and community linguistically and culturally. The focus of this course, at each level, is to improve English language proficiency by developing the skills of listening, speaking, reading, and writing. Emphasis is also placed on assisting students in preparation for other state assessments. Students may or may not take this class in conjunction with English classes as determined by the ESOL team.

Family Life

493 Family Life

1/2 Credit

Family Life (9-12) is an elective semester course designed to provide an opportunity for students to study family, marriage, communication, child-birth, parenthood, and adolescence. Students will become more aware of the importance of maturity and self-esteem in each unit studied. The value and responsibility of children are stressed as well as concerns of young people today. Students are taught skills in coping and decision-making and are encouraged to think about their future, to realize the goals they must set for themselves, and to work toward achieving these goals.

Family/Consumer Science

852 Skills for Living 1/2 Credit

Skills for Living (10-12) will be an elective semester course designed to provide students with an opportunity to acquire basic skills to meet the challenges of their daily lives with confidence. Students will learn basic information and practical skills related to such topics as interpersonal and family relationships, healthy living and clothing.

853M Nutrition and Food Preparation 1/2 Credit

Nutrition and Food Preparation (10-12) is a one semester course that prepares students to make a lifetime of healthy food choices. Topics include healthful eating, meal management, basic kitchen skills, buying and preparing foods, serving foods and dining out. Emphasis will be placed on nutrition and planning balanced meals. Students will practice a variety of culinary skills related to recipe usage, kitchen appliances and equipment, handling food and maintaining a safe and sanitary kitchen.

854M Food Trends 1/2 Credit

Beyond Oodles and Noodles and Cardboard Mac and Cheese. This program is designed to teach students about cooking in the real world. It will broaden an understanding and appreciation of food while strengthening management and decision making skills based on food choices and nutritional values. Students will select, prepare, compare and serve foods from various food groups. Students will also compare "home cooked" to packaged convenience foods. As they learn budgeting skills, students will focus on balancing convenience and cost in preparing family meals. An exploration of food-related careers will round out the program.

855M Entertaining with Food 1/2 Credit

The Fine Art of Dining. This program is designed to teach students skills and techniques about the preparation of food as it relates to entertaining at home and as a career. Students will have opportunities to plan, prepare, and present their culinary skills using good china and crystal, linen tablecloths, and good silver while focusing on proper etiquette and table manners. It will broaden an understanding and appreciation of fine dining at home and in restaurants. An exploration of food-related careers will round out the program.

Family/Consumer Science

860 Learning About Children I 1/2 Credit

Learning About Children I (9-12) is an elective semester course designed to provide students with an opportunity to acquire basic skills for effective parenting. Emphasis is placed on the growth and development of the preschool child with practical experience in teaching and observing a child development laboratory at the school. Learning About Children I and II must be completed by students interested in the Child Care Guidance Completer program.

861 Learning About Children II 1/2 Credit

Learning About Children II (9-12) is an elective semester course designed to provide students with opportunities to acquire basic skills for effective parenting. Emphasis is placed on the growth and development of the child from birth to age six. Learning About Children I and II must be completed by students interested in the Child Care Guidance Completer program.

862 Early Childhood Development 1 Credit

Prerequisites: Learning About Children I and II (860, 861)

Early Childhood Development (10-12) is an elective semester course designed to provide students with theory relevant to physical, social, emotional, and cognitive development of children ages one to six years old. Emphasis is placed on working with young children as assistants under the guidance of a classroom teacher. Early Childhood Development must be completed by students interested in the Child Care Guidance Completer program.

863M Child Care/Guidance 1 Credit

Child Care and Guidance (11-12) is a Certificate of Merit course in which students participate in planning and operating a child development lab for preschool students. Students will study the activities that comprise the typical schedule of a day care center. Emphasis is placed on selecting appropriate activities for various levels of development.

Family/Consumer Science

870 Personal Financial Literacy

1/2 Credit

Personal Financial Literacy (11-12) is a required course. This course is designed to place the student in the role of citizen, family member, consumer, and active participant in managing personal finances. Students will learn ways to maximize their earnings potential, develop ways for managing financial resources, understand, and develop skills for using credit, and explore ways to invest money for future security. Themes of study will include career decisions, money management, financial security, credit management and consumer rights and responsibilities. This course is available as an elective credit to juniors and seniors. Beginning with the class of 2012 the course will be a requirement for graduation.

Health Education

481M Comprehensive Health Education

1/2 Credit

Comprehensive Health (9-12) is a comprehensive educational course which qualifies for Certificate of Merit credit. This course emphasizes the physical, intellectual, social, emotional, and spiritual well-being. The curriculum will include mental health, drug abuse prevention, personal and consumer health, nutrition and fitness, safety/injury prevention, disease prevention and family life/human sexuality. (This course is listed as Health Education on the student report card.)

Mathematics

301 Pre-Algebra

1 Credit

Pre-Algebra (9) is for ninth grade students who have not yet mastered the skills necessary for success in an Algebra I course. Students will further explore the relationships among fractions, decimals, percent and ratios. Students will continue to work with integers, equations, proportions and formulas to solve real-world problems. Students will analyze data using statistics and probability topics. The use of a graphing calculator will be emphasized throughout this course to aid in exploring patterns, understanding concepts, and solving problems. After completing this class, students will enroll in a non-merit Algebra I class.

309 HSA Algebra Prep

No Credit

HSA Algebra Prep (10-12) is a one semester class designed as an Algebra I refresher course for the student who has passed the Algebra I (341M) or Algebra I (341), but scored more than 15 points below the proficient score of 412 on the HSA Algebra/Data Analysis assessment and have not obtained a composite score of 1602 on the four HSA assessments. Students enrolled will continue to retake the HSA Algebra/Data Analysis assessments according to the testing calendar established by MSDE with the goal of obtaining a proficient score of 412 or obtaining the required composite score of 1602 on the four assessed areas. This course meets the requirement by MSDE "as having participated in locally-administered or approved assistance" for any student who may become "Bridge" eligible as an alternative way to meet graduation requirements.

Mathematics

321 Mathematics I

1 Credit

Mathematics I (11-12) is a course at the Center for Career and Technical Education (CCTE) using materials from the Center for Occupational Research and Development (CORD), as developed for the Tech Prep Program. The course includes material that focuses on arithmetic operations, problem-solving techniques, estimation, measurement skills, algebra, geometry, data handling, statistics, and computers. Workplace applications of these math skills are emphasized. The course is calculator dependent. Units A, B, C, and 1 through 13 are presented.

322 Mathematics II

1 Credit

Prerequisite: Mathematics I (321)

Mathematics II (12) is a course at the Center for Career and Technical Education (CCTE) as the continuation of Math I using materials from CORD. Units 14-33 are studied and focus is on the following topics: Powers and Roots, Using Formulas, Linear Equations, Graphing Data, Nonlinear Equations, Statistics, Probabilities, Trigonometric Functions, Factoring, Patterns and Functions, Quadratics, Systems of Equations, and Quality Assurance and Process Control. Workplace applications of these skills are emphasized.

Students entering grade 9 in the Fall of 2005 and thereafter are required to pass four assessments in order to meet the Maryland High School Diploma graduation requirements: Government, Algebra/Data Analysis, English, and Biology.

The remedial courses above have been established to offer students additional opportunities to develop mathematical skills in algebraic and geometric concepts in preparation for the HSA Algebra/Data Analysis assessment

Mathematics

341 Algebra I **1 Credit**

Prerequisite: *MSA Math 8 Score 400-434*

Algebra I (9-12) is a required course for graduation. This course covers algebra concepts and skills required in the mathematics Core Learning Goals: Functions of Algebra and Data Analysis and Probability. The Functions of Algebra goal requires students to algebraically represent, model, analyze, and solve mathematical and real world problems involving patterns and functional relationships. The Data Analysis and Probability goal requires students to collect, organize, display, analyze, and interpret data to make decisions and predictions. The major emphasis for this class is to mirror HSA questioning and assessment limits in preparation for the passing of the HSA Algebra/Data Analysis. This course requires students to demonstrate proficiency in the use of a graphing calculator.

341M Merit Algebra I **1 Credit**

Prerequisite: *MSA Math 8 Score 435-640*

Merit Algebra I (9-12) is a required course for graduation which qualifies for Certificate of Merit credit. This course covers algebra concepts and skills required in the Mathematics Core Learning Goals: Functions of Algebra and Data Analysis and Probability. The Functions of Algebra goal requires students to algebraically represent, model, analyze, and solve mathematical and real world problems involving patterns and functional relationships. The Data Analysis and Probability goal requires students to collect, organize, display, analyze, and interpret data to make decisions and predictions. Topics include: patterns with integers, probability and statistics, data and patterns, order of operations, algebraic expressions, factoring, equations, polynomials, inequalities, multiplication and division of algebraic expressions and equations, rational numbers and proportions, solving and applying algebraic equations, linear functions, and systems of equations and functions. This course requires students to demonstrate proficiency in the use of a graphing calculator. Students must pass the end of course HSA Algebra/Data Analysis assessment.

Mathematics

351M Algebra II **1 Credit**

Prerequisites: *Merit Algebra I (341M)*

Algebra II (9-12) is an elective course which qualifies for Certificate of Merit credit. This course extends the study of topics introduced in Algebra I/Data Analysis. This course focuses on linear, quadratic, exponential, logarithmic, polynomial, and rational functions and other topics that would enable a student to enroll in a credit-bearing general education mathematics course at a post-secondary institution. Graphing calculators are an integral part of this course.

361M Honors Algebra II **1 Credit**

Prerequisites: *Merit Algebra I (341M)*

Honors Algebra II (9-11) is a Certificate of Merit course offered to those students identified as gifted in mathematics. Honors Algebra II resource materials are designed to complement the Algebra II curriculum for Allegany County. These resource materials include the following: (1) enrichment and problem solving activities, (2) computer and calculator applications, and (3) college entrance practice problems. The emphasis of this course is to examine topics in more depth and at an accelerated pace. Course requirements are rigorous with an emphasis on mathematical reasoning and communication. This course includes extensive use of graphing calculators.

362 Geometry **1 Credit**

Prerequisite: *Merit Algebra I (341M); HSA Algebra Score = 240-396*

Geometry (10-12) is an elective course that satisfies the geometric concept graduation requirement. This course does not qualify as a college prep course in Geometry. The topics covered include geometric figures, congruence, similarity, one-, two-, and three-dimensional measurement. Emphasis is on intuitive reasoning as it applies to coordinate and transformational geometry, triangles, quadrilaterals, similarity, circles, area and volume. This course is a prerequisite for Integrated Math (391).

Mathematics

362M Merit Geometry 1 Credit

Prerequisite: Merit Algebra I (341M); HSA Algebra Score = 397-449

Merit Geometry (9-12) is an elective course that qualifies for Certificate of Merit credit. Emphasis is on the development of deductive and inductive reasoning processes in Euclidean unified geometry. Content areas of both plane and three-dimensional geometry include triangles and congruencies, inequalities, parallel lines and related theorems, relationships of polygons and polyhedral, similarity, reasoning processes and techniques and the development of a formal mathematical system. The practical application of geometry to the physical sciences is also presented.

372M Honors Geometry 1 Credit

Prerequisite: Merit Algebra I (341M) in middle school, HSA Algebra Min. Score = 450 or MSA Math 8 Score = 444-650

Honors Geometry (9-10) is a Certificate of Merit course offered to students identified as gifted in mathematics. Resource materials, designed to complement the Geometry curriculum, include the following: (1) enrichment and problem solving activities, (2) computer and calculator applications, and (3) college entrance practice problems. The emphasis of the Honors Geometry course is to use discovery learning techniques and to examine topics in more depth at an accelerated pace.

373M Trigonometry/Pre-calculus 1 Credit

Prerequisite: Algebra II (351M)

Trigonometry/Pre-calculus (11-12) is an elective course which qualifies for Certificate of Merit credit. This course establishes the foundation for additional study in mathematics including calculus and advanced math. The course content is divided into two parts. Part one consists of traditional topics of trigonometry including basic functions, solutions of triangles, identity proofs, sinusoidal graphs, solution of trigonometric equations, and polar numbers. Part two of the course includes the study of advanced algebra topics with computer applications when appropriate. The course includes the extensive use of graphing calculators.

Mathematics

383M Honors Trigonometry/Pre-calculus 1 Credit

Prerequisites: Honors Geometry (372M)

Honors Trigonometry/Pre-calculus (11-12) is a Certificate of Merit course offered to those students identified as gifted in mathematics. Resource materials are designed to complement the Trigonometry/Pre-calculus curriculum for Allegany County. These resource materials include the following: (1) enrichment and problem solving activities, (2) computer and calculator applications, and (3) college entrance practice problems. There is additional attention given to learning at an accelerated pace with extensive use of graphing calculators.

384M Calculus 1 Credit

Prerequisite: Trigonometry/Pre-calculus (373M)

Calculus (12) is an elective course which qualifies for Certificate of Merit credit. This course contains comprehensive material in the areas of differential and integral calculus. Emphasis is placed on application rather than theory. A knowledge of algebra, geometry, and trigonometry is essential for the study of calculus and are recommended prerequisites for this course.

391 Integrated Mathematics 1 Credit

Prerequisites: Geometry (362) or (362M);

Integrated Mathematics (11-12) is an elective course that builds on the content and skills taught in Algebra I (341) and Geometry (362). Emphasis is on expanding basic Algebra and Geometry skills. Students will be required to use graphing calculators in problem-solving throughout the course.

Mathematics

392M Elements of Math 1 Credit

Elements of Math (12) is an elective course which qualifies for Certificate of Merit credit. This course is a study of mathematical structures that are discrete in the sense of not supporting or requiring the notion of continuity. The following topics will be included: Problem Solving and Critical Thinking, Set Theory, Number Theory, Graph Theory (Networks), Propositional Logic (the study of reasoning), Combinatorics (permutations, combinations, factorial), Probability (average, expected values, sample space, events, conditional probability circuits), and case study analyses of models from areas such as the sciences, medicine, engineering and industry.

393M Probability and Statistics 1/2 Credit

Prerequisites: Algebra II (351M) preferred

Probability and Statistics (11-12) is an elective course which qualifies for Certificate of Merit credit. Topics include basic probability concepts, descriptive statistics, and inferential statistics. Students will conduct an independent project and prepare an analysis in both descriptive and inferential statistics as part of this course. Scientific and graphing calculators play an integral role in the development of the topics.

394M Advanced Placement (AP) Calculus 1 Credit

***Prerequisite: Honors Trigonometry/
Pre-calculus (383M) or Trigonometry/
Pre-calculus (373M)***

Advanced Placement (AP) Calculus (12) is an elective course which qualifies for Certificate of Merit credit. This course prepares students for taking Advanced Placement Examination (AB form) for college credit. The course includes extensive use of graphing calculators. A knowledge of algebra, geometry, and trigonometry/Pre-calculus is essential for the study of calculus and are recommended prerequisites for this course.

Mathematics

395M College Algebra 0 Credit

This is a course in college algebra. It begins with a review of topics in intermediate algebra such as operations with exponents, radicals, and solutions of the linear and quadratic equations. The course progresses through the study of functions, solving and graphing equations, and solutions to systems of equations. Topics will be taught with a focus on problem solving and applications. This course reflects the importance the outside world places on thinking and problem solving. Students engage in solving realistic problems using information and the technological tools available in real life. A graphing calculator, such as a TI-83, may be required.

019 College Test Prep 1/2 Credit

College Test Prep (11-12) is an elective subject offered in selected schools. Emphasis in the course is placed on test-taking skills and sample content questions similar to test items on the newly revised Scholastic Aptitude Test (SAT) and the American College Test (ACT).