

Montgomery Central

Registration and Course Guide

2017 - 2018

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Mission Statement

To inspire students to achieve success as they are preparing for a life as productive and responsible citizens.

Our Beliefs

Students and staff at Montgomery Central believe the following to be true:

- **We believe that everyone deserves and should show respect.**
- **We believe that everyone deserves dignity and opportunity.**
- **We believe that a safe and positive environment is essential.**
- **We believe that success requires a community of enthusiastic stakeholders.**
- **We believe that a challenging and dynamic world demands real-world skills and experiences.**
- **We believe that students should be afforded the opportunity to achieve in academics, service and leadership.**

"Montgomery County Public Schools is an equal opportunity education institution and will not discriminate on the basis of race, color, national origin, sex, disability, and/or age in its activities, programs or employment practices as required by Title VI, Title IX and Section 504."

Types of Diplomas and Certificates

Advanced Studies Diploma

Discipline Area	Advanced Studies Diploma	Verified credits (SOL's passed)
English	4	2
Math (through Alg II)	4	2
Laboratory Science (including Chemistry or Physics)	4	2
History	4	2
Health & Physical Education	2	
Foreign Language (2 years of 2 or 3 years of 1)	3 or 4	
Fine Arts	1	
Economics and Personal Finance	1 Beginning with the Class of 2015	
Virtual Course	1 Beginning with the Class of 2017	
CTE	1	
Electives	2	
Student Selected		1
Total	26	9

Standard Diploma

Discipline Area	Standard Diploma	Verified credits (SOL's passed)
English	4	2
Math	3	1
Laboratory Science	3	1
History	3	1
Health & Physical Education	2	
Fine Arts	1	
Economics and Personal Finance	1 Beginning with the class of 2015	
Virtual Course	1 Beginning with the Class of 2017	
Electives (2 sequential electives)	5	
Student Selected		1
Total	22	6

*Freshman entering in 2013 and later must have an approved CTE credential to earn the Standard Diploma. Two sequential electives are required for the Standard Diploma regardless of the freshman entering year.

Modified Standard Diploma-

Subject	Credits
English	4
Math**	3
Science	2
Social Studies***	2
Health & PE	2
Fine Arts	1
Vocational (CTE)	1
Sequential	2
Other Credits	3
Total	20

WILL NO LONGER BE AVAILABLE STARTING WITH THE CLASS OF 2017
 * Modified Standard Diploma applies to students who qualify for an Individualized Educational Plan.

** Math requirements include: Algebra, Geometry, Personal Living and Finance, or Algebra, Functions and Data Analysis.

*** Social Studies requirements must include but are not limited to: US/VA History and US/VA Government

-- Students need to pass 8th grade Reading or EOC English 11 Reading and 8th grade Math or Algebra I Standards of Learning Tests

Special Diploma

Students with disabilities who complete the requirements of their Individualized Education Program (IEP) and do not meet the requirements for other diplomas are awarded Special Diplomas.

Certificate of Program Completion/Vocational Certification

Students who do not qualify for diplomas because they are unable to meet the SOL requirements may be awarded a Certificate of Program Completion if they complete a prescribed course of study. Students who are enrolled in a course of study leading toward a standard diploma who fail to earn the necessary verified units of credit may qualify for this certificate.

GED Program (ISAEP)

Montgomery Central offers GED options for students who are between the ages of 16-18. This program has different requirements that satisfy the ultimate goal of preparing the student to pass the GED test and to enter the vocational component to the GED program that is required in order to prepare students for the workforce. Your child's school counselor can help student determine if this program is appropriate for them.

Transfer Student information (verified credits)

Verified credit requirements for students who first transfer into Virginia Public Schools after the 2002-2003 school year		
Grade Level Student Enters Virginia Public Schools	Standard Diploma	Advanced Studies Diploma
During ninth or the beginning of tenth grade	No change in requirements	No change in requirements
During tenth or the beginning of eleventh grade	1 English, 1 mathematics, 1 social studies, and 1 science	2 English, 1 mathematics, 1 social studies, 1 science and 1 student-selected test
During eleventh or the beginning of twelfth grade	1 English and 1 student-selected test	1 English and 3 student selected tests
During twelfth grade	If Virginia diploma requirements cannot be met, the previous school should award diploma or student can request that the local school board seek a waiver from the Virginia Department of Education	If Virginia diploma requirements cannot be met, the previous school should award diploma or student can request that the local school board seek a waiver from the Virginia Department of Education

Grading Scale

Montgomery County Public Schools GRADING SCALE	
A	100-90Superior
B.....	89-80Above Average
C.....	79-70.....Average
D	69-60Below Average
F.....	59 and below.....Failing

Attendance

Attendance Procedures: MC firmly believes that regular attendance is necessary if each student is to receive the full benefits of class instruction. Excessive absenteeism generally results in poor learning and unsatisfactory grades. Also, good attendance habits have carry-over value for employment and later-life activities.

The following attendance procedures are in effect:

1. A student who exceeds nine (9) total absences in a term course or eighteen (18) total absences in a year course will not receive credit for that class regardless of grade average.
2. All absences will be identified as documented or undocumented.
3. Absences caused by state-mandated testing, field trips, school-sponsored activities, VHSL activities, late bus, conferences with school staff, involuntary court appearance, death in family, religious holidays will not contribute to the maximum number of absences.

Attendance Appeals: Absences that result in a loss of credit may be appealed to the local school review panel. A student needing to schedule an attendance appeal must contact the appropriate assistant principal. **Attendance appeals should be arranged within five (5) days of notification of loss of credit. Further information on attendance appeals may be found in the Student Code of Conduct.** *For more information on attendance, please refer to the Student Code of Conduct Handbook.*

Placement/Promotion Procedure

Recommendations concerning instructional placement of students are the responsibility of the teacher and other professional staff directly involved with the students. The final decision concerning placement, however, rests with the principal. Promotion at the high school level is based on the guidelines listed below:

- Students who are promoted from grade 8 will be placed in grade 9.
- Students in high school progress toward graduation on a course-by-course basis. Students take courses based upon academic performance, academic needs, graduation requirements, and previous credits earned.
- Graduation requirements for students shall be those in effect at the time the student entered the ninth grade for the first time.
- Assignment of class standing is made on the following basis:

Promotion/Retention Policy	
9th to 10th grade	A student must pass English 9 and earn at least 4 other credits (5 total credits)
10th to 11th grade	A student must pass English 10 and earn at least 10 other credits (11 total credits)
11th to 12th grade	A student must pass English 11 and earn at least 16 other credits (17 total credits)
<ul style="list-style-type: none"> • A student is strongly encouraged to attend summer school if English is failed or if two or more academic courses are failed. • Students also may need to attend summer school for VHSL eligibility. 	

Diploma Seals

Diploma Seals Available to MCPS Students

	Diploma	Minimum Grade Avert	Other
Governor's Seal Board of Education Seal	Advanced Studies or Standard	B	9 transferrable college credits
CTE Seal	Advanced Studies or Standard	A Complete a CTE Sequence and maintain a B average in the sequence courses	OR pass an approved Industry Certification or licensure test This seal may change due to the new Standard Diploma requirements for 2013-14 freshmen
Advanced Mathematics and Technology Seal	Advanced Studies or Standard	B	5 credits in math, including Algebra two; two verified credits in math Pass an approved Industry Certification or licensure test OR a Board approved college level credit in technology or computer science
Excellence in Civics Education	Advanced Studies or Modified Standard	Complete Virginia & United States History and Virginia & United States Government courses with a grade of "B" or higher	Complete 50 hours of voluntary participation in community service or extracurricular activities, such as volunteering for a charitable or religious organization that provides services to the poor, sick or less fortunate; participating in Boy Scouts, Girl Scouts or similar youth organizations; participating in Junior Reserve Officer Training Corps (JROTC); participating in political campaigns, government internships, Boys State, Girls State or Model General Assembly; and participating in school-sponsored extracurricular activities that have a civics focus. Any student who enlists in the United States military prior to graduation will be deemed to have met this community service requirement.
MCPS STEM Academy Seal (Proposed)	Advanced Studies or Standard	B	Complete an approved STEM Plan of Study including Ind Cret test and 9 college credits Complete a 15 hour internship and participate in a co-curricular project

Local school divisions may award other diploma seals or awards for exceptional academic, CTE, citizenship or other exemplary performance in accordance with criteria defined by the local school board. The design, production and use of those seals is the responsibility of the local school boards awarding the seal.

New Diploma Requirements

Beginning with students entering ninth grade for the first time in 2013-2014, a student must:
 Earn a board-approved career and technical education credential to graduate with a Standard Diploma; and
 Successfully complete one virtual course, which may be non-credit bearing.

Scheduling Information

During registration, students will select courses using the subjects listed in the Course Description section of this handbook. A parent or guardian is required to sign the registration form. This request for parent signature constitutes the formal notification to the parent of the student's course requests for this school year.

Registration

Be sure to understand what is expected of you in each class. Select your courses and alternates very carefully. Review credits earned and courses taken to be certain you are meeting graduation requirements.

A grade of "C" or better is strongly recommended before advancing to the next year in math or foreign language.

All students must list at least 3 alternative choices. If a conflict occurs when scheduling, students will be placed in their alternative choices. We can't guarantee any elective choice will be placed in schedule but do our best to fulfill student requests.

For registration purposes, students will assume that they will pass every course in which they are presently enrolled. Adjustments will be made at the end of first semester and over the summer for students who fail courses and also for students who attend summer school.

The entire master schedule, as well as the hiring of teaching personnel, is based on registration; therefore, you **should not** anticipate changes in individual schedules once the master schedule is finalized.

Schedule Changes

Schedule Changes will be made at the start of each semester only for the following reasons:

1. **If you are scheduled for a class you have already passed**
2. **If you failed a class last year and you must repeat it before advancing to the next level.**
3. **If you are assigned to a teacher with whom you took the class and failed, we will make every effort to reassign you.**
4. **If a teacher's class loads are uneven and need balancing.**

If a student drops a course after 5 days of membership in the course (first 5 days of a semester), the grade will be recorded as a "WF" (Withdrawal Failure – computed as an F) for the semester/year in which the course is dropped.

Level Changes

Level Changes may be made up to 3 days after issuance of the first six weeks report. These changes will only be granted if there is room available in the requested course level. Level changes following that period will be limited to cases with extenuating circumstances and are at the Principal's discretion. Year-long classes that are dropped at the end of a semester must be recorded with a grade of "WF."

If a student drops a year-long course at the semester break the grade will be recorded as a "WF" (Withdrawal Failure – computed as an F) for the semester/year in which the course is dropped.

MC COURSE CATALOG 2017-2018
**Courses will be offered based on student interest and
teacher availability.**
**Per MCPS Policy 6-6.2, only full credits will be
accepted.**

ENGLISH

11300 ENGLISH 9 **One English Credit**

In this course students will apply knowledge of literary terms and forms to their reading and writing and to analyses of literature and other printed materials. They will be introduced to literary works from a variety of cultures and eras. Students will continue to develop their reading comprehension skills through utilizing strategies to identify formats, text structures, and main ideas. Students will write narrative, literary, expository, and informational forms. They will develop as writers by participating in a process for writing, including prewriting, organizing, composing, revising, editing, and publishing

PA1130 ENGLISH 9 PROJECT AIM **One English Credit**

Same as 11300 except the course is taught through Project AIM.

11400 ENGLISH 10 **One English Credit**

In this course students will read, comprehend, critique, and analyze a variety of literary works. They will interpret a variety of informational materials and apply critical reading skills across the content areas. Students will develop their expository writing skills and learn effective techniques of organization and development. Students will apply the writing process in developing written products and will edit writing for correct use of language, sentence formation, punctuation, capitalization and spelling.

PA1140 ENGLISH 10 PROJECT AIM **One English Credit**

Same as 11400 except the course is taught through Project AIM.

11500 ENGLISH 11 **One English Credit**

In this course students will enhance their appreciation for literature by studying American literature, both classic and contemporary. They will read a variety of literary genres and informational texts to identify the prevalent themes in American literature that are reflective of American history and culture. Students will write in a variety of forms with an emphasis on persuasive essays and professional correspondence. Additionally, students will engage in research that requires the selection, evaluation, use, and documentation of a variety of sources. Each student will present a research product that is clearly written and accurately documented. **Note:** Students will be required to take the Writing and the Reading SOL tests related to this course. Both reading and writing must be passed prior to graduation.

PA1150 ENGLISH 11 PROJECT AIM **One English Credit**

Same as 11500 except the course is taught through Project AIM.

11600 ENGLISH 12 **One English Credit**

In this course students will analyze British literature and literature of other cultures. In addition, students will read informational and technical texts and continue to develop their own reading-process skills. Students will apply these reading skills in other content areas. Students will produce informational and expository papers that are logically organized and contain clear and accurate ideas. They will produce well-documented research papers, using a standard method of documentation.

PA1160 ENGLISH 12 PROJECT AIM **One English Credit**

Same as 11600 except the course is taught through Project AIM.

11810 READ 180 I - Grade Level 9 **One Elective Credit**

This course follows the Scholastic READ 180® and System 44® reading curriculums designed to accelerate students' reading skills, foster independent thinkers, and prepare them for college and careers. Instruction combines direct, teacher-led whole-group instruction, small-group differentiated skill instruction, and independent reading and computer-based rotations. High-interest non-fiction and literary content allows students to practice foundational literacy skills while gaining content-area knowledge. Students progress through increasingly complex readings, critical thinking, discussions, and writing activities that help to make reading relevant to their lives. **NOTE:** Students are nominated for this course based on the Scholastic Reading Inventory.

11811 READ 180 II – Grade Level 10 One Elective Credit

This is the second year of the Read 180 course. This course follows the Scholastic READ 180® and System 44® reading curriculums designed to accelerate students' reading skills, foster independent thinkers, and prepare them for college and careers. Instruction combines direct, teacher-led whole-group instruction, small-group differentiated skill instruction, and independent reading and computer-based rotations. High-interest non-fiction and literary content allows students to practice foundational literacy skills while gaining content-area knowledge. Students progress through increasingly complex readings, critical thinking, discussions, and writing activities that help to make reading relevant to their lives. **NOTE:** Students are nominated for this course based on the Scholastic Reading Inventory.

11812 READ 180 III – Grade Level 11 One Elective Credit

This is the third year of the Read 180 course. This course follows the Scholastic READ 180® and System 44® reading curriculums designed to accelerate students' reading skills, foster independent thinkers, and prepare them for college and careers. Instruction combines direct, teacher-led whole-group instruction, small-group differentiated skill instruction, and independent reading and computer-based rotations. High-interest non-fiction and literary content allows students to practice foundational literacy skills while gaining content-area knowledge. Students progress through increasingly complex readings, critical thinking, discussions, and writing activities that help to make reading relevant to their lives. **NOTE:** Students are nominated for this course based on the Scholastic Reading Inventory.

11813 READ 180 IV – Grade Level 12 One Elective Credit

This is the fourth year of the Read 180 course. This course follows the Scholastic READ 180® and System 44® reading curriculums designed to accelerate students' reading skills, foster independent thinkers, and prepare them for college and careers. Instruction combines direct, teacher-led whole-group instruction, small-group differentiated skill instruction, and independent reading and computer-based rotations. High-interest non-fiction and literary content allows students to practice foundational literacy skills while gaining content-area knowledge. Students progress through increasingly complex readings, critical thinking, discussions, and writing activities that help to make reading relevant to their lives. **NOTE:** Students are nominated for this course based on the Scholastic Reading Inventory.

12000 JOURNALISM I One Elective Credit

Prerequisites: English grade of "B" or higher is strongly recommended and teacher recommendation is required. This class requires an application which is available in the guidance office. In Journalism I, students will learn the basics of journalism, with a focus on print media. Students will write newspaper articles, take photographs, sell advertisements, and create page layouts. Members of the class will use available technology for page design and digital photography. This is a publications course. It does not satisfy the required English course for each grade.

14460 FILM STUDY One Elective Credit

Prerequisite: Teacher Approval.

This course explores the history of movies from the silent to the present through viewing selected material representing different periods of history, styles, and genres; through reading about the medium; and through evaluating material presented to the public of today by studying reviews and seeing current releases. This course fulfills the fine arts requirement.

**15150 FRESHMAN ENGLISH PROGRESSIVE
One Local Elective Credit**

This class is for entering ninth-grade students who need to strengthen their reading and writing skills as they study the ninth-grade curriculum. The class will emphasize reading and study strategies, allowing time for sustained silent in-class reading as well as hands-on lessons that appeal to a number of different learning styles. This course is paired with English 9. **Note:** This blocked course is paired with English 9 second semester.

SOCIAL STUDIES

22150 WORLD HISTORY AND GEOGRAPHY TO 1500 AD

One Credit

Ninth grade students will study world geography and world history from the earliest civilization to the end of the 15th Century. Emphasis will be placed on physical geography, geography skills, and the influences of geography on the development, continuity, and change of civilizations and cultures. Physical geography will include the study of the five themes of geography as well as developing analytical skills in interpreting maps, photographs, graphs, charts. The origin of Western Civilization and the impact of early non-western civilizations from ancient times through the Renaissance are central themes of the course. **NOTE:** Students will be required to take the SOL test related to this course.

PA2215 WORLD HISTORY/GEOGRAPHY I PROJECT AIM

One Credit

Same as 22150 except the course is taught through Project AIM.

22160 WORLD HISTORY & GEOGRAPHY 1500 TO PRESENT

Prerequisite: World History and Geography **One Credit**

World History and Geography 1500 to Present will provide students with an examination of the historical themes which led to the establishment of vast empires by various European powers since the period of the Renaissance. The impact of European expansion into the Americas, Africa, and Asia during the 15th through the 19th centuries will be analyzed. Students will describe the political, economic, and social changes that developed in Europe during this same period. Students will gain an understanding of the impact of technology, especially analyzing the effects of the Industrial Revolution. This will lead to students explaining the development of twentieth century imperialism and nationalism, the rise of totalitarianism and the impact of World War I and II. The course concludes by focusing upon themes that have emerged during the post-world war era. Students will describe political developments in Europe and the United States in the second half of the 20th century. Political, economic, social, and physical geography will be incorporated throughout the course, allowing student to demonstrate skills in geographical analysis. **NOTE:** Students will be required to take the SOL test related to this course.

23600 VIRGINIA AND U.S. HISTORY

One Credit

This is a survey course, which includes a study of the development of American ideals and institutions through the major events, eras, and personalities of US history from the age of discovery through the modern era. The course provides a perspective on the relationship between the past and contemporary issues. Virginia's history is emphasized from the colonial period through the Civil War period. This course further develops and refines the previously learned writing and thinking skills in interpreting charts, graphs, and maps. Other skills emphasized are developing and understanding of events as a part of a chronological sequence; developing problem-solving and critical thinking skills; organizing, analyzing, interpreting, and synthesizing information. **NOTE:** Students will be required to take the SOL test related to this course.

PA2360 VIRGINIA & U.S.HISTORY PROJECT AIM **One Credit**

Same as 23600 except the course is taught through Project AIM.

24400 VIRGINIA AND U.S. GOVERNMENT

One Credit

Virginia and United States Government is a course that examines the basic structure of the different levels of government, national, state and local. It provides an in-depth study of the US Constitution and its amendments, as well as a thorough study of the foundations and principles upon which democratic government rests. The branches of government and the powers inherent to each are thoroughly examined, as well as current events and their worldwide effects. Included is a study of the Virginia Constitution and local governing bodies. Characteristics of the US economic system are explored. Importance is placed on the practical application of political theory and special emphasis is given to basic democratic values, the importance of citizen participation in the democratic process, and the understanding of social, political, economic issues and current events. Students are encouraged to participate in the political life of their community, by registering to vote and voting, by attending political and/or public meetings and by writing letters or speaking in public forums. Community service will also be strongly encouraged.

PA2440 VIRGINIA & U.S. GOVERNMENT PROJECT AIM

One Credit

Same as 24400 except the course is taught through Project AIM.

25000 SOCIOLOGY

One Elective Credit

This course deals with the concepts and principles necessary for the study of human relationships from the level of small group to mass behavior. In addition, students learn the terminology and scientific methodology of the discipline. Some special topics emphasized include the components and variations of culture and the ways individuals are socialized into their culture. A major unit on social institutions presents the institutions by which society functions the family, education, religion, economy, and government. Causes and consequences of social problems in our society are considered along with causes of unplanned social change and strategies for implementing intentional change.

29000 PSYCHOLOGY

One Elective Credit

Psychology is a course that provides a study of the thought processes and behavior of humans. The class examines the history of psychology including modern methods of behavioral analysis. Various topics of interest are covered, including the brain and learning styles, biological behavior, human development stages from infancy to elderly, personality types, the effects of sleep and sleep disorders, dream stages, intelligence, and psychological disorders. Through examination of these topics, students gain an in-depth understanding of their behavior, as well as the behavior of others.

29970 APPALACHIAN HISTORY One Elective Credit

This course introduces the Appalachian Mountain region through a survey of its geography, history, cultures, lifestyles, and the arts. A focus will be on local/regional history to provide an awareness and appreciation for the Appalachian region. Basic to the course are focused readings and discussions on Appalachia, including multiple perspectives on a variety of topics that may encompass among them geography, history, culture, folklore, literature, music, the arts, economics, politics, religion, and education.

MATHEMATICS

31300 ALGEBRA I

One Credit

This course extends students' knowledge and understanding of the real number system and its properties through the study of variables, expressions, equations, inequalities, and analysis of data derived from real-world phenomena. Use of a graphing calculator is considered essential to provide a graphical and numerical approach to topics in addition to a symbolic approach. Topics include linear equations and inequalities, systems of linear equations, relations, functions, polynomials, and statistics. **Students are required to take the Standards of Learning End of Course Test.**

31310 ALGEBRA I – PART 1

One Elective Credit

Algebra I Part 1 is the first of a two-course sequence designed to provide additional instructional time for students to develop, understand, and apply the concepts and skills of Algebra I. The complete Algebra I curriculum is taught over the span of the two-course sequence. **To earn a math credit meeting graduation requirements, students must successfully complete Part 2 of the two-course sequence.**

31320 ALGEBRA I – PART 2

One Credit

Algebra I Part 2 is the second of a two-course sequence designed to provide additional instructional time for students to develop, understand, and apply the concepts and skills of Algebra I. The complete Algebra I curriculum is taught over the span of the two-course sequence. Algebra I Part 2 includes a review of the Algebra I Part 1 content. **Students are required to take the Standards of Learning End of Course Test.**

PA3130 ALGEBRA I PROJECT AIM

One Credit

Same as 31300 except the course is taught through Project AIM.

31340 ALGEBRA, FUNCTIONS, AND DATA ANALYSIS (AFDA)

One Credit

This course is designed for students who have successfully completed the standards for Algebra I. Within the context of mathematical modeling and data analysis, students will study functions and their behaviors, systems of inequalities, probability, experimental design and implementation, and analysis of data. Data will be generated by practical applications arising from science, business, and finance. Students will solve problems that require the formulation of linear, quadratic, exponential, or logarithmic equations or a system of equations. A course sequence of Algebra I, Geometry, and AFDA satisfies the math requirements of the Standard diploma; a course sequence of Algebra I, Geometry, AFDA, and Algebra II satisfies the math requirements of the Advanced Studies diploma.

PA3134 ALGEBRA, FUNCTIONS, AND DATA ANALYSIS PROJECT AIM

One Credit

Same as 31340 except the course is taught through Project AIM.

31350 ALGEBRA II

One Credit

Algebra II provides a thorough treatment of algebraic concepts through the study of functions, polynomials, rational expressions, complex numbers, exponential and logarithmic equations, arithmetic and geometric sequences and series, and data analysis. Emphasis is placed on the mechanics of algebra with real world applications and modeling. A transformational approach to graphing is used with families of functions. Numerical, graphical, and algebraic representations and solutions will be emphasized. Graphing utilities, especially graphing calculators, are integral to the course. **Students are required to take the Standards of Learning End of Course Test.**

31430 GEOMETRY

One Credit

This course emphasizes two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. Course content includes properties of geometric figures, trigonometric relationships, and reasoning to justify conclusions. Methods of justification include paragraph proofs, two-column proofs, indirect proofs, coordinate proofs, algebraic methods, and verbal arguments. A variety of applications and general problem-solving techniques, including algebraic skills, will be used. Graphing calculators will be used to assist in teaching and learning. **Students are required to take the Standards of Learning End of Course Test.**

PA3143 GEOMETRY PROJECT AIM

One Credit

Same as 31430 except the course is taught through Project AIM

31440 GEOMETRY PART 1

One Elective Credit

Geometry Part 1 is the first of a two-course sequence designed to provide additional instructional time for students to develop, understand, and apply the concepts and skills of Geometry. The complete Geometry curriculum is taught over the span of the two-course sequence. **To earn a math credit meeting graduation requirements, students must successfully complete Part 2 of the two-course sequence.**

31450 GEOMETRY PART 2**One Credit**

Geometry Part 2 is the second of a two-course sequence designed to provide additional instructional time for students to develop, understand, and apply the concepts and skills of Geometry. The complete Geometry curriculum is taught over the span of the two-course sequence. Geometry Part 2 includes a review of the Geometry Part 1 content. **Students are required to take the Standards of Learning End of Course Test.**

32010 ALGEBRA READINESS**One Elective Credit**

This course supports students who are not yet prepared to complete Algebra I successfully, especially those who did not pass the Math 8 SOL test. Using diagnostic assessment and an intervention curriculum, this course will provide intensive, targeted remediation.

SCIENCE

42100 EARTH SCIENCE **One Earth Science Credit**

This laboratory course is designed to give the student an understanding of the earth, its processes, history and place in the universe. Major emphasis is on geology, meteorology, oceanography and astronomy. Man's influence on his environment, locally and worldwide, is stressed.

NOTE: Students will be required to take an SOL test related to this course.

PA4210 EARTH SCIENCE PROJECT AIM **One Earth Science Credit**

Same as 42100 except the course is taught through Project AIM

43100 BIOLOGY I **One Biology Credit**

Biology I is a laboratory science course which presents an overview of the diversity of life and the interrelationship of all organisms. Major emphasis is on cytology, genetics, microbiology, botany, zoology, and ecology. The student should develop an appreciation of the living world, an understanding of biological bases of problems that exist in the world and an understanding of man's place in nature. **NOTE:** Students will be required to take an SOL test related to this course.

PA4310 BIOLOGY I PROJECT AIM **One Biology Credit**

Same as 43100 except the course is taught through Project AIM.

42600 EARTH SCIENCE II ASTRONOMY **One Earth Science Credit**

Astronomy is the study of our universe. Throughout the semester, we will study topics such as the life cycles of stars, cosmological theories, our solar system, and recent discoveries. Laboratory investigations will include topics such as stellar classification, star charts, spectra, and parallax. In addition, there will be opportunities to observe the night sky.

43400 BIOLOGY II ECOLOGY **One Biology Credit**

Ecology is a study of the complex relationships between the abiotic (non-living) and the biotic organisms, which constitute the different environments on Earth and the effects that humans have on the ecosystems. This is a more in-depth study of the relationship between the interactions of the living and non-living components of the Earth. It's designed for the student to gain more practical field applications of ecology. This is a field course and labs and field trips are an integral component of the course.

PA4340 BIOLOGY II ECOLOGY PROJECT AIM **One Biology Credit**

Same as 43400 except the course is taught through Project AIM.

level. **NOTE:** Students who are enrolled in a Virtual Virginia World Language course will be required to take a nationally recognized examination in their language as part of this course. Student work will be required outside of class time.

HEALTH AND PHYSICAL EDUCATION

73000 HEALTH & PHYSICAL EDUCATION 9 One HPE Credit

Health units include stress management, personal health, first aid and safety, drug education, family life and diseases. The physical education program contributes to the overall mental, emotional, social, and physical growth of each student. Physical education emphasizes personal fitness, individual and team games/sports, and lifetime activity.

74000 HEALTH & PHYSICAL EDUCATION 10 WITHOUT DRIVER'S EDUCATION One HPE Credit

The health education course for tenth grade students consists of the study of health and wellness. This includes family life education, mental health, consumer health, and personal injury prevention. Physical education emphasizes personal fitness, individual and team games/sports, and lifetime activity.

76400 ADVANCED PHYSICAL EDUCATION One Elective Credit

Advanced physical education includes participation in physical activities that contribute to personal enjoyment and the attainment and maintenance of personal physical activity goals. Students will participate in various forms of exercise including weight lifting, running, agility, core and abdominal training, and flexibility exercises. Preference will be given to 11th and 12th graders. **NOTE:** Due to the fact that this class is a physical conditioning class, it can be repeated for duplicate credits. This course will not count as one of the two required HPE credits. Use 76400A for 2nd credit attempted in same calendar school year at 4x4 Block Schools.

FINE ARTS

91200 ART FOUNDATIONS I

One Credit

This course is designed as an entry-level art class and is the prerequisite for the more advanced art classes. In this course, the student will explore art as it relates to history, to the environment and to his/her own personal experiences. There will be instruction in drawing, painting, ceramics, printmaking, and sculpture using a variety of both 2-D and 3-D media. Art styles and periods will be compared with an emphasis on developing a visual appreciation for one's own art and for the art of others. (Students who have had an art class prior to high school may take a placement test and present a portfolio to possibly qualify for a higher level class.)

91300 ART II INTERMEDIATE

One Credit

This course is a continuation of Art Foundations I. The focus of this course is for the student to obtain an understanding of art by incorporating the elements and principles of design in their work. Through the study and exploration of art, the student will be motivated to think about visual experiences in the past and present. Emphasis is placed on the further development of the student's drawing and design skills through a variety of 2-D and 3-D media and is designed to expand the student's knowledge of drawing, painting, sculpture, and ceramics while introducing jewelry making, graphics, and research into art history.

91980 INTRODUCTION TO FINE ARTS

One Credit

Introduction to Fine Arts is a course for students interested in art, music, photography, and cinematography. It requires no prerequisites and is designed for the student who does not plan to continue further study in art or music. The student will study music and art history from the Ancient Egyptians through today's art and musical world, including the arts of photography and cinematography. Students taking this course should hope to gain knowledge in the effects of society on the fine arts through history, and be able to relate his/her personal experiences with that of today's music and art.

PA9198 INTRO TO FINE ARTS PROJECT AIM

One Credit

Same as 91980 except the course is taught through Project AIM

SPECIAL EDUCATION

78220 FUNCTIONAL SCIENCE

A relevance-based Science course emphasizing basic concepts from Life, Physical and Earth Sciences and driven by the Individual Education Plan.

78230 FUNCTIONAL SOCIAL STUDIES

A relevance-based Social Studies course emphasizing basic concepts of citizenship, community, and consumerism, and driven by the Individual Education Plan.

78580 COMMUNITY BASED INSTRUCTION

A course which provides students direct instruction in accessing and using community resources (like transportation, libraries, stores, recreation facilities) and basic vocational and job skills.

NOTE: Use 7858A for 2nd credit attempted in same calendar school year at 4x4 Block Schools.

78610 ACADEMIC LAB/RESOURCE

This elective course is structured to provide each student with instruction in specific learning strategies, individualized learning opportunities, and opportunity for tutorial for content classes.

78710 FUNCTIONAL ENGLISH 9

A relevance-based English/Language Arts program emphasizing essential reading, writing, and speaking skills and driven by the Individual Education Plan.

78711 FUNCTIONAL ENGLISH 10

A relevance-based English/Language Arts program emphasizing essential reading, writing, and speaking skills and driven by the Individual Education Plan.

78712 FUNCTIONAL ENGLISH 11

A relevance-based English/Language Arts program emphasizing essential reading, writing, and speaking skills and driven by the Individual Education Plan.

78713 FUNCTIONAL ENGLISH 12

A relevance-based English/Language Arts program emphasizing essential reading, writing, and speaking skills and driven by the Individual Education Plan.

78720 FUNCTIONAL MATH 9

A relevance-based Math program emphasizing essential consumer, daily living, and functional skills and driven by the Individual Education Plan.

78721 FUNCTIONAL MATH 10

A relevance-based Math program emphasizing essential consumer, daily living, and functional skills and driven by the Individual Education Plan.

78722 FUNCTIONAL MATH 11

A relevance-based Math program emphasizing essential consumer, daily living, and functional skills and driven by the Individual Education Plan.

78723 FUNCTIONAL MATH 12

A relevance-based Math program emphasizing essential consumer, daily living, and functional skills and driven by the Individual Education Plan.

CTE

BUSINESS AND INFORMATION TECHNOLOGY

61200 ECONOMICS AND PERSONAL FINANCE

Grade Level 9-12

One Credit

Students learn how to navigate the financial decisions they must face and to make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living independently, and inheritance. **Note: 61200 or 6120V** meets the graduation requirement for Economics and Personal Finance. Starting with 2011-2012 Freshmen class, neither course may be used to meet the graduation requirement for a CTE course or as part of a required CTE sequence.

PA6120 ECONOMICS AND PERSONAL FINANCE One Credit

Same as 61200 except the course is taught through Project AIM. Beginning with the class of 2014-2015, this course will be required for graduation and may not be used to meet any other graduation requirements.

66250 WORD PROCESSING

One Credit

Grade Levels 9-10

Students develop intermediate to advanced level word processing skills using a variety of software functions, including graphics, desktop publishing, and telecommunications. Students gain competence integrating other applications such as database and spreadsheet into word processing activities. Classroom experiences also provide for skill development in communication.

PA6625 WORD PROCESSING PROJECT AIM One Credit

Same as 66250 except the course is taught through Project AIM.

Classes in the following areas may be taken at CHS based on student interest and teacher availability.

- **Business and Information Technology**
- **Agriculture**
- **Marketing**
- **Family and Consumer Sciences**
- **Health and Medical Sciences**
- **Engineering and Architecture**
- **Technology Education**
- **Trade and Industrial**
- **Cosmetology**
- **Career Connections**