2019-2020

Program of Study

Growing a Community of Leaders

The mission of Kent County High School is to equip every student to achieve success in a diverse global community

A Message From
The Principal
Mr. J. Nick Keckley

Dear Students,

The mission of Kent County High School is to equip every student to achieve success in a diverse global community. The exciting journey of high school is and remains a time when students lay the foundation for a bright future. Kent County High School is committed to providing all students with a 21st Century education in order to meet college and career readiness.

I encourage all students and their parents to take the time to carefully review the *Kent County High School Student Program of Study*. This important Guide can assist you with making important decisions about your high school course of study that will impact your future higher education pathway and career choices. This document will also help you with understanding all high school requirements and course offerings. You will find traditional classroom courses, as well as online courses.

Please know that our School Counselors stand ready to assist students and their parents with the very important decisions that will have to be made regarding your future. I am confident that you will have a bright future and that you can develop the right foundation here at Kent County High School.

KCHS Beliefs

- All students will be career and/or college ready
- High expectations of all staff and students are essential for success
- Each student is a unique, valued individual capable of learning
- Lifelong learning is essential to becoming productive members of society
- Parents and community members are urged and welcomed to actively participate in the education of our students
- An environment that promotes student learning, positive relationships, and mutual respect is fundamental to individual and community growth

District Contact Information

KCPS Administration
410-778-1595
Superintendent, Dr. Karen Couch
Secondary Supervisor, Tracy Williams

KCPS Board Of Education
President, Joseph Goetz
Vice President, Patricia McGee
Member, Wendy Costa
Member, A. Bryan Williams
Member, Nivek Johnson
Student Member, Grace Boege

School Contact Information

KCHS Administration
Principal, J, Nick Keckley
Assistant Principal, Mark Buckel
Assistant Principal, Matthew Moore

Counseling Department
410-778-7153
A – K Counselor, William Grauer
L – Z Counselor, Sandra Tilghman
Counseling Secretary, Norrie Matthews

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Graduation Requirements

Credit Requirements

A minimum of 23 credits must be earned in grades 9 through 12 to receive a Maryland High School Diploma. Students must be enrolled four years beyond grade 8 unless the Superintendent of Schools grants a formal waiver.

English	4
- 1 credit must be English I	
- 1 credit must be English II	
- 1 credit must be English III or AP English Language and Composition	
- 1 credit must be English IV or AP English Literature and Composition	
Math	4
- 1 credit must be Algebra I	
- 1 credit must be Geometry	
Science	3
- 1 credit must be Biology	
- 2 credits that must include lab experience in any of the following areas: Earth Science, Life Science, Physical Science	
Social Studies	3
- 1 credit must be Government	
- 1 credit must be U.S. History	
- 1 credit must be World History	
Physical Education	1/2
Health Education	1/2
Fine Arts	1
Technology Education	1

One or more of the following Completer Programs:

World Language	2
and/or	
Advanced Technology	2
and/or	
Career and Technology Education Completer	4 or 5
Electives	1- 4
Total Credits	23

Service Learning

Students must complete 75 hours of approved individual service learning, including three components of preparation, action and reflection. This service learning requirement is a Maryland State Department of Education requirement and waivers may not be granted.

Student Transfer Policy:

Students who transfer into Kent County Public Schools from out of state need to complete the following number of hours before graduation based on the school year in which they transfer: grades 6 to 8, 75 hours; grade 9, 45 hours; grade 10, 30 hours; grade 11, 20 hours; grade 12, 10 hours. School counselors will advise students of this requirement upon registration.

Students who wish to transfer in previously earned hours must have proof of previous service learning. This should be given to the guidance office.

Appropriate Assistance

Kent County High School offers students who do not meet the testing requirements appropriate assistance to meet this graduation requirement. This assistance includes individual tutoring before, during, or after school and assistance in the completion of Bridge Projects.

Maryland High School Certificate

The goal of the certificate program is to use all available resources to ensure that students are able to enter the workplace and become responsible, productive citizens.

The Maryland High School Certificate is awarded to students with disabilities who cannot meet the requirements for a diploma. A student with a disability may be considered for the Maryland High School Certificate if he/she:

- Meets the criteria for taking the Alternate Maryland Assessment (Alt-MSAA and Alt - MISA)

- Is enrolled in an educational program for at least four years beyond grade 8 or its age equivalent, and is determined by an IEP team, with the agreement of the parents of the student, to have developed appropriate skills for the individual to enter the world of work, to act responsibly as a citizen, and to enjoy a fulfilling life in the world of work including, but not limited to, (a) gainful employment, (b) work activity centers, (c) sheltered workshops, and (d) supported employment; or

- Has been enrolled in an educational program for four years beyond grade 8 or its age equivalent and will have reached the age of twenty-one by the end of his/her current year.

Students who receive a Maryland High School Certificate will not be eligible to earn a GED.

Certificate of Merit

The purpose of the Certificate of Merit is to reward students who successfully pursue more challenging programs. To earn a Certificate of Merit, students must be a dual completer and have a cumulative 3.0 GPA.

Academic Honors

Valedictorian and salutatorian will be computed based on final grade point averages that reflect a four-year program. The weighted grade point average will be determined by dividing the total points earned for all grades by the total number of credits attempted and computed to the nearest thousandth of a point. Valedictorian and Salutatorian status will be determined at the conclusion of Quarter 3 of the senior year.

Senior Portfolio/Interview

Career and Technology completers are required to compile a career portfolio in their final course.

The purpose of the Senior Portfolio and Interview is to give students an opportunity to practice skills with the business community that will prepare them to market themselves to both colleges and employers.

The Portfolio consists of an archive of student academic achievements, work experience, and performance. It allows colleges and employers to have a better insight into the academic life of the student and it allows students to become better organized and have some control over their destiny. Finally, it opens better lines of communication among students, staff, parents, and community and business leaders.

There is a timeline for students to complete the Portfolio. A Portfolio Scoring Rubric is used and students are expected to make the necessary corrections to achieve an Adequate or Superior rating before receiving final approval and be scheduled for an interview.
The interview consists of business mentors participating in a “mock” job interview with students. Business mentors will then provide students with a written evaluation of the
The interview consists of business mentors participating in a “mock” job interview with students.

Need To Know

Promotion

Kent County High School requires the following minimum criteria to be met to advance to the next grade level:

Sophomore	5 credits and entering second year of high school attendance
Junior	10 credits and entering third year of high school attendance
Senior	17 credits and entering fourth year of high school attendance

High School Credits From Middle School

A student may earn high school credit while in middle school by meeting the following requirements:

- Complete a middle school course that is the same as the course offered in the high school and that gives the same end-of-course exam, which may include but is not limited to Algebra I or Spanish I
- Earn a final grade of 75% or better in the course or have principal recommendation for credit.

The grade earned will not be used in the calculation of the high school grade point average. Students are required to take a math course each year in high school. Four math credits are required for graduation.

World Language credit earned in middle school will count towards a high school credit and dual completership.

Dual Completer

Kent County High School and the State of Maryland encourage students to be dual completers. A dual completer is a student who completes at least two years of the same World Language and a state approved Career Technology Education program completers. A dual completer is a student who completes at least two years of the same World Language and a state approved Career Technology Education program.

Transfer Credits

A student entering the school system may transfer high school credit through the following provisions:

- A student coming from any accredited institution with an official transcript will be awarded a credit and grade for successfully completed courses, which are compatible to the Maryland State graduation requirements
- A student from a non-accredited home schooling program or non-accredited school will have his/her program and course work evaluated. A student may be required to take a placement examination or provide a course syllabus or sample work products to determine appropriate placement and credit
- If a student transfers from an accredited or non-accredited out-of-state school or homeschooling program and credit has been awarded for a state assessed subject, the student will be exempt from the MD Comprehensive Assessment Program and awarded the minimum passing score.

Drop/Add Courses

A student must have written consent from the principal and their parent/guardian in order for a schedule change to be made. The drop/add or withdrawal from course procedures are described in the Kent County Public Schools Secondary Grading Procedure 600-5 and the Parent/Student Handbook.

Honors Courses

Using extended curricula and challenging materials at an accelerated pace, the instruction in honors courses requires advanced levels of student motivation and independence. Students are expected to produce original, creative, and complex products. Outside of class reading and writing (both summer and during course) with follow-up assignments may be required.

Parents and students should review a variety of criteria (e.g., academic achievement, teacher recommendation, standardized test scores, portfolio artifacts) when considering enrollment in honors courses. For more information and further advisement, contact your school counselor.

Calculating a Cumulative GPA

The Cumulative Grade Point Average (GPA) determines a student's academic rank in relation to all members of a particular graduating class. Most courses offered at Kent County High School are weighted on a 4.0 scale, however honors, STEM, AP, and college courses are weighted on a 4.5 scale. Weighted courses are indicated by a scale icon (⚖).
College credits will be added to the high school transcript and calculated in the GPA.
If you have any questions concerning your student's cumulative GPA, please call your school counselor.

Virtual Learning

The Maryland Virtual Learning Opportunities Program (MVLO), an educational service managed by the Maryland State Department of Education, is designed to expand the access of Maryland public school students to challenging curricula aligned to the Maryland Content Standards as well as to other appropriate standards through the delivery of high quality online courses.
MVLO offers online courses for high school credit in collaboration with the local school systems through the Maryland Virtual School (MVS). The teaching is conducted online with the teacher physically separated from the student. Other virtual learning online courses will also be listed as available.

Grade Recouping

Grade Relearning/Reassessment (grade recouping) is an opportunity for students to learn and demonstrate mastery of crucial course content. It is a shared responsibility between home and school. One recouping re-assessment opportunity will be offered for each summative assessment in every course (Note: Midterm, culminating activities, and end of course exams are not eligible for recouping). When content mastery is re-assessed, it may be re-assessed partially, entirely, or in a different format as determined by the teacher. Assessments that determine the student's mastery of curricular objective can be recouped. While some time must be allowed for re-teaching/re-learning of the un-mastered objective (s), recouping must be completed within 8 school days of when the assessment is returned. Students must be required to complete independent related work in order to be allowed to recoup.

Evening School

Kent County's Credit Recovery Program is designed to keep students on track to graduate with their peers by providing an immediate opportunity to re-learn content. Any student who fails to earn a graduation credit can be placed in a course recovery program during school or an evening school program. These courses are conducted during the school day, if possible, and in Evening School Monday through Thursday from 2:45PM to 4:45PM.
Online credit recovery has been designed with the recovery student in mind. The data from the final examination will be used to design a course that specifically meets the learning needs of each student. With each unit, diagnostic quizzes are used to allow students to skip areas of content that they have previously learned. Post topic quizzes provide ongoing measures of content mastery and guide individual learning plans. Instruction is teacher led and individualized through the use of computerized instructional materials.

Students must demonstrate mastery of established performance standards. All school rules including the attendance policy will apply.

Final Exam, Mid Term, and Culminating Activity

The culminating activity for each course will include evidence of knowledge of the essential curriculum for that course. A written examination must be a part of this culminating activity. This exam will include selected response questions and constructed response questions. The other parts of the culminating activity may include but are not limited to projects, presentations, and other

performance based assessments. Students must complete the final exam to receive credit for the course. End of the course final exam and culminating activity cannot be recouped. All year long classes have a mid-term.

PowerSchool Parent Access

Kent County Public Schools is pleased to offer the opportunity to use PowerSchool Parent Access, Kent County Public School's student information system. With this access you can check on your son/daughter's attendance and grade information at the click of a button. In order to facilitate this process, you must register each year for a username and password. A form will be sent home at the beginning of each school year. You must return this form in person to the school with photo ID. If you have more than one child in the system, bring the form to the school of your choice. The school will provide your assigned Confidential Access ID and password, which you will use to set up your Parent/Guardian Account on the PowerSchool Parent Access site.

Counselors

School counselors are an intricate part of the education process in our school system. As school counselors, we strive to deliver services to each and every student, as well as work with parents and the community to ensure that every student has the best possible opportunity to achieve his or her goals beyond their school careers. The comprehensive school-counseling program at Kent County High School is designed to address academic progress, personal/social development and college and career planning for all students.

The School Counseling Department at Kent County High School provides the following direct services to students:

School counseling core curriculum: This curriculum consists of structured lessons designed to help students attain the desired competencies and to provide all students with the knowledge, aptitudes and skills appropriate for their developmental level. The school counseling core curriculum is delivered throughout the school's overall curriculum and is systematically presented by school counselors in collaboration with other professional educators in the 9th - 12th grade classrooms and group activities.

Individual student planning: We coordinate ongoing systemic activities designed to assist students in establishing personal goals and developing future plans.

Responsive services: Responsive services are activities designed to meet students' immediate needs and concerns. Responsive service may include counseling in individual or small group settings or through crisis response.
Indirect Student Services: Our counselors also provide indirect services on behalf of students. This includes referrals for additional assistance, consultation and collaboration with parents, teachers, other educators and community organizations.

Naviance

Naviance is a tool for students to use in order to understand their unique strenght's as it connects to careers. Kent County High School also uses Naviance to help students to understand post secondary possibilities , explore college admissions , match to best fit colleges and ideal majors. Students using the common App can apply to colleges using Naviance , as well as , applying for local scholarships opportunities.

National Collegiate Athletic Association (NCAA) Eligibility

All students who intend to participate in interscholastic athletics in a Division I or Division II postsecondary institution must register with the NCAA Initial-Eligibility Clearinghouse. The purpose of this registration is to determine whether or not the student is a "qualifier" and can practice, compete, and receive athletic scholarships as a freshman. Part of that determination is based upon the student's

completion of a required number of core courses as approved by the NCAA. Because the approved list of courses changes every spring, students must maintain contact with their school counselors to assure that courses selected during the winter registration process are still accepted by the NCAA for the subsequent school year. Students are also encouraged to see their counselors to receive more complete information on NCAA eligibility requirements, or go to their website – http://www.ncaa.org/wps/wcm/connect/public/ncaa/academics/resources/eligibility or www.ncaa.org

Testing

Kent County High School's
CEEB Code: 211095

There are test fees for the SAT, ACT, PSAT/NMSQT and AP exams. Each testing company determines these fees. However, financial assistance is available to qualified students. Please see your school counselor for more information regarding fee waivers.

SAT

Students applying to college may need to take the SAT® exam and SAT subject tests and have their official score reports sent to the colleges of their choice. For additional information, please go to **www.collegeboard.org** National test dates for 2019-20 are:
October 5, 2019
November 2, 2019
December 7, 2019-KCHS
March 7, 2020
May 2, 2020- KCHS
June 6, 2020

ACT

Students applying to college may opt to take the ACT®. At most colleges/universities, the ACT will satisfy both the SAT Reasoning Test and some SAT Subject Tests. For additional information, please go to www.actstudent.org.
National test dates for 2019-2020 are:
July 13, 2019
September 7, 2019
October 26, 2019
December 7, 2019
February 8, 2020
April 13, 2020
June 8, 2020
July 13, 2020

PSAT/NMSQT

The PSAT/NMSQT® is a standardized test that provides first hand practice for the SAT Reasoning Test. It also gives students a chance to enter National Merit Scholarship Corporation (NMSC) scholarship programs. All Kent County High School sophomores will take the PSAT free of charge to provide individual diagnostic information to support student education planning. Any junior who would like to take the PSAT for a qualifying score into NMSC, will need to pay to take the test. The approximate national test date for 2019-2020 is scheduled for:
October 16, 2019

ADVANCED PLACEMENT (®AP)
(www.apcentral.collegeboard.com)

All students enrolled in Advanced Placement courses are required to take the corresponding Advanced Placement exam in May. The cost of the Advanced Placement exam is approximately $94.00 (subject to change). Financial assistance is available for qualified students. Please see your counselor with questions or concerns. AP exams are typically the first and second weeks in May. If a student does not take the AP exam, the AP title will be removed from the course on the final transcript.

May

5-	Calculus A/B
6 -	English Lit
7-	Chemistry
8-	Computer Science
	Studio Art Portfolio Due
11-	Bio , Enviomental Science
12-	Spanish Language , Psych
13-	Wd
14-	English Language
15	Computer Science

Technology Education Credit Courses

Introduction to Engineering Design
Technology Education

Advanced Technology Education Completer Programs

CADD Technology I and II

Career and Technology Education Completer Programs

Agricultural Science - CASE
Agriculture, Food, and Natural Resources
Principles of Agricultural Science - Animal
Animal and Plant Biotechnology
Agriculture Business, Research & Development

Academy of Health Professions
Foundations of Medicine and Health Science
Structures and Functions of the Human Body
Theory and Clinical Experience in Health Services
Pharmacy Tech Medical Specialty

Automotive Technician
Suspension and Steering
Brakes
Electrical/Electronic Systems
Engine Performance

Construction Trades
Foundations Of Building And Construction Technology
Carpentry 1 – Level I
Carpentry 2 – Level II (2)

Food and Beverage Management
Becoming a Food Service Professional I
Becoming a Food Service Professional II
Practical Experience as a Food Service Professional (2)

Fire and Rescue
Fire Rescue 1: Emergency Medical Care
Fire Rescue 2: FireFighter 1
Fire Rescue 3: Hazardous Materials, Operations, Rescue Technician
Fire Rescue 4:Response to Terrorism, Fireground Operations

Truck Company Fireground Operations and Rescue Technician

FM Broadcasting
Interactive Media
Broadcast Communications
Broadcast Productions
Broadcast Programming

Project Lead The Way
Introduction to Engineering Design (IED)
Principles of Engineering (POE)
Digital Electronics (DE)
Civil Engineering and Architecture (CEA)
Engineering Design and Development (EDD)

Teacher Academy of MD
Human Growth and Development through Adolescence
Teaching as a Profession
Foundations of Curriculum & Instruction
Education Academy Internship

Apprenticeship of Maryland
Apprenticeship MD 1: Apprenticeship Related Instruction
Apprenticeship MD 2 : Work Based Learning
3: Work Based Learning
4: Work Based Learning

KCHS STEM Math and Science Progression

All STEM students take Algebra I in 8th grade	Grade 9 SY 19-20 c/o 2023 Freshman	Grade 9 SY 18-19 c/o 2022 Sophomores	Grade 9 SY 17-18 c/o 2021 Juniors	Grade 9 SY 16-17 c/o 2020 Seniors
9th Grade	STEM Bio STEM Geometry Took PARCC Alg in 8th	STEM Bio STEM Geometry Took PARCC Alg in 8th	STEM Bio STEM Geometry PARCC Alg in 8th	STEM Bio STEM Geometry Took Bio HSA
10th Grade	STEM Chemistry STEM Algebra II NGSS test here	STEM Chemistry STEM Algebra II Likely take NGSS test here	STEM Chemistry STEM Algebra II Likely take NGSS test here	STEM Chemistry STEM Algebra II
11th Grade	STEM Precalculus AP Biology, AP Chemistry, or AP Environmental	STEM Precalculus AP Biology, AP Chemistry, or AP Environmental	STEM Precalculus AP Biology ,AP Chemistry , Or Ap Environmental	STEM Precalculus AP Biology, AP Chemistry, or AP Environmental
12th Grade	AP Calc, AP Computer Science, or College Statistics STEM Physics	AP Calc, AP Computer Science, or College Statistics STEM Physics	AP Calc, AP Computer Science, or College Statistics STEM Physics	AP Calc, AP Computer Science, or College Statistics STEM Physics

MISA: Maryland Integrated Science Assessment

Note: Courses labeled STEM are where students travel together as a cohort. Students must take all courses listed in order to be considered STEM completers.

High School Requirements

Note: Bolded courses are specifically required

High School Requirements- STEM

For Science and Math, follow the STEM Progression Chart

Grade 9	Grade 10	Grade 11	Grade 12	High School Graduation Requirements
English 9	**English 10**	**English 11**	**English 12**	4 English Credits
U.S. History	**Government**	**World History**	Social Studies Elective	3 Social Studies Credits
STEM Biology	STEM Chemistry	AP Biology AP Environmental AP Chemistry	STEM Physics	4 Science Credits
STEM Geometry	STEM Algebra II	STEM Pre-Calculus	AP Calculus Calculus Statistics AP Computer Sci.	4 Math credits & one each year of high school
Health	**Health**	**Health**	**Health**	.5 Credit
Fitness	**Fitness**	**Fitness**	**Fitness**	.5 Credit
Fine Arts	**Fine Arts**	**Fine Arts**	**Fine Arts**	1 Credit
Intro to Engineering & Design	Intro to Engineering & Design	Intro to Engineering & Design	Intro to Engineering & Design	1 Credit
World Language	World Language or Advanced Tech or CTE Completer Program	World Language or Advanced Tech or CTE Completer Program	World Language or Advanced Tech or CTE Completer Program	2 World Language Credits or 2 Advanced Tech Credits or 4 CTE Completer Course Credits
	Elective	Elective	Elective	Additional electives/program requirements to equal 23 credits

Recommended Pacing Guide or Class Expectations

Grade 9	Grade 10	Grade 11	Grade 12	
Minimum 5 credits with 1 in English and 1 in Math	Minimum 10 credits with 2 in English and 2 in Math	Minimum 17 credits with 3 in English and 3 in Math	23 credits with 4 in English and 4 in Math	**23 Credits**

Earning College Credit

Advanced Placement (→AP)

Advanced Placement® (AP) programs are designed for students who are prepared to take college level courses. These courses are rigorous and require extensive out-of-class work. All students taking AP courses will be required to complete preparatory course work during the summer preceding the course. Other prerequisites may apply.

Kent County High School uses the AP Program's official policy for AP enrollment, which indicates that all willing students should be considered for admission to AP courses.

Course credits granted for AP courses vary from college to college, so students should contact the college(s) of their choice for specific AP Policies. Contact your school counselor for assistance. Colleges and universities throughout the world offer credit and/or placement for qualifying Advanced Placement Exam scores. Information about AP credit and placement policies at many colleges and universities is now available on the College Board's Website: www.collegeboard.org/ap/creditpolicy

Parents and students should review a variety of criteria (e.g., academic achievement, teacher recommendation, standardized test scores, portfolio review) when considering enrollment in AP courses. Students enrolled in an AP course must take the College Board exam administered at the conclusion of the course. A fee of approximately $94 (Subject to change) for each exam is required. Financial assistance is available for qualified students. Please see your counselor with questions or concerns. Payment is required by October 2019. Scores earned on an AP exam are not included as part of the final grade in the AP course.

Exams may also be taken without the student having taken the course. The College Board will provide an exam schedule with different exams given during morning and afternoon sessions over a two-week period in May. Consult your school counselor for exam schedule information.

To be considered for potential college credit, students are responsible for having an official Advanced Placement Score Report sent to their selected college(s). To request an official score report, write to:

Advanced Placement Program
P.O. Box 6671
Princeton, NJ 08541-6671
Telephone: 609-771-7300

Pending available certified staff and adequate enrollment Advanced Placement courses offered are: Biology, English Language, English Literature, Psychology, Spanish, Studio Art, U.S. History, World History, Calculus A/B, Environmental Science and Computer Science Principles.

Credit or advanced course credit will be awarded at many colleges for scores of three, four, or five on the Advanced Placement Examinations of the College Entrance Examination Board (CEEB).

Dual Enrollment

This program allows eligible students to earn college credit while still attending high school. College classes receive high school and college credit. Students attending Chesapeake College must be 16 years old and carry an unweighted GPA of 2.5. Students attending Washington College's More Able courses must be seniors and hold an unweighted GPA of 3.5. All college courses are placed on the high school transcript and calculated in the high school GPA.

Course Descriptions

The courses listed on the following pages are offered by Kent County Public Schools. Course descriptions in this guide are based upon instructional objectives and course standards. **Course availability is dependent upon the needs of the school population, enrollment numbers, staff allocations, and staff expertise.**

Courses are in the following categories:

- Career and Technology Education
- English Language Arts
- Fine Arts
- Mathematics
- Physical Education/Health
- Science
- Social Studies
- Technology Education
- Work Based Learning
- World Language
- Dual Enrollment
- Maryland Approved Online Classes
- Please refer to the legend below for the meaning of the icons used in the course descriptions.

LEGEND

PRE: Prerequisite Course(s) (Required)

REC: Recommended Course(s) (Suggested)

 Eligible for College Credit

 Student Transportation (Required)

 Weighted Course

L/C License or Certification

RC May Be Taken For Repeat Credit

TEST State Test Requirement

$ Required Exam/Certification Fee

CAREER AND TECHNOLOGY EDUCATION

AGRICULTURAL SCIENCE (CASE)

This program offers students the opportunity to learn about different possibilities in an Ag career. This program is a 4 course offering. Students will have the potential to earn college credit through end of course exams. The courses required for completer status are: 897, 898, 899, and 860.

AGRICULTURAL SCIENCE 1: INTRODUCTION TO AGRICULTURE, FOOD, AND NATURAL RESOURCES (AFNR)

897 1 Credit Grade 10

This course introduces students to the world of agriculture, the pathways they may pursue, and the science, mathematics, reading, and writing components they will use throughout the CASE curriculum. Woven throughout the course are activities to develop and improve employability skills through practical applications. Students will explore career and post-secondary opportunities in each area of the course. Students' experiences will involve the study of communication, sciences of agriculture, plants, animals, natural resources, and agricultural mechanics. Students will learn to solve problems conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning. In addition, students will understand specific connections between their lessons and Supervised Agricultural Experience and FFA components that are important for the development of an informed agricultural education student. This is the first course of a four-course sequence required for the Curriculum for Agricultural Science Education (CASE) Agricultural Science Completer Program.

AGRICULTURAL SCIENCE 2: PRINCIPLES OF AGRICULTURAL SCIENCE - ANIMAL

898 1 Credit Grade 11

This course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in animal science. Students will explore hands-on projects and activities to learn the characteristics of animal science. They will work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock producers, or industry personnel face in their respective careers. Students will understand specific connections between the Animal Science lessons and Supervised Agricultural Experience, FFA, and Life Knowledge components that are important for the development of an informed agricultural education student. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community. This is the second course of a four-course sequence required for the Curriculum for Agricultural Science Education (CASE) Agricultural Science Completer Program. PRE: Agricultural Science 1: Introduction To Agriculture, Food, And Natural Resources

AGRICULTURE SCIENCE 3: ANIMAL AND PLANT BIOTECHNOLOGY

899 1 Credit Grade 12

Animal and Plant Biotechnology, a specialization course in CASE Program of Study, is designed to increase the level of student understanding related to biotechnology concepts. Students will complete hands-on activities, projects, and problems designed to build content knowledge and technical skills in the field of biotechnology. Students will become proficient at projects involving micro-pipetting, bacterial cultures and transformations, electrophoresis, and polymerase chain reaction. Research and experimental design will be highlighted as students develop and conduct industry appropriate investigations. Pre: Agricultural Science 1 and 2.

AGRICULTURAL SCIENCE 4: AGRICULTURE BUSINESS, RESEARCH, AND DEVELOPMENT

860 1 Credit Grade 12

The Agriculture Business, Research, and Development course will serve as the capstone course available to students through the CASE curriculum. Instruction and continued inquiry-based projects are designed to integrate key learning from previous CASE courses and have students apply real-world career situations through SAE projects or other internship/work-based learning opportunities. PRE: Agricultural Science 1, 2, and 3.

ACADEMY OF HEALTH PROFESSIONS

This completer program prepares students to take the CNA and GNA exams at the conclusion of their fourth course in their senior year. Students must learn and master necessary skills for the exam and prepare for the written test. This certification opens the doors for students wishing to enter into the healthcare profession. Students must participate in a clinical rotation at various facilities in their senior year in order to complete this program. The courses required for completer status are: 865, 866, 867, 868 and 869

FOUNDATIONS OF MEDICINE AND HEALTH SCIENCE

865 1 Credit Grade 10

This course is designed to provide students with an overview of the therapeutic, diagnostic, environmental information systems of the healthcare industry. Students will begin to prepare for a medical or health science career by developing a broad understanding of the cluster and pathways in the health and Biosciences Cluster. Students will learn about ethical and legal responsibilities as well as the history and economics of healthcare. As students learn to use medical terminology within a variety of medical and healthcare environments, they will develop skills for success, academic, and technical skills necessary to function as a health professional. PRE: Biology or Concurrently enrolled in Biology

STRUCTURE AND FUNCTIONS OF THE HUMAN BODY

866 1 Credit Grade 11

Students in this course study the structure and functions of the human body, including cellular biology and histology. Systematic study involves homeostatic mechanisms of the integumentary, skeletal, muscular, circulatory, and nervous systems, and special senses. Students will investigate the body's responses to the external environment, maintenance of homeostasis, electrical interactions, transport systems, and energy process. Students will conduct laboratory investigations and fieldwork, use scientific methods during investigations to solve problems, and make informed decisions. Completer Program. PRE: Biology and Chemistry (can be concurrently enrolled in Chemistry)

ACADEMY OF HEALTH PROFESSION 3 AND 4: THEORY AND CLINICAL EXPERIENCE IN HEALTH SERVICES

867 1 Credit Grade 12
868 1 Credit Grade 12

Theory and Clinical Experience in Health Services is designed for students in grade twelve and meets two consecutive periods for one semester. Classroom instruction includes studying diseases and advanced nursing techniques in preparation for practical clinical experience. Students must pass the CPR and First Aid requirements before visiting any facilities. Students receive on-site instruction at Chester River Manor, Chestertown Nursing and Rehabilitation Center, Chester River Hospital Center, and Kent County Health Department. Students are candidates for the Certified Nurse Assistant and Geriatric Nurse Assistant examinations upon completion of this course. Students will have the opportunity to participate in work-based learning experiences. This is the third and fourth course of a four-course sequence required for the Allied Health Completer Program. PRE: Health Occupations 2: Theory and Concepts of Medical Procedures L/C, $

PHARM TECH MEDICAL SPECIALTY COURSE

869 1 Credit Grade 12

This course will prepare students to enter the pharmacy field and take the Pharmacy Technician Certification Board's PTCB exam, when the student is age 18. Technicians work in hospitals, home infusion pharmacies, community pharmacies and other health care settings working under the supervision of a registered pharmacist. Course content includes medical terminology specific to the pharmacy, reading and interpreting prescriptions and defining drugs by generic and brand names. Students will learn dosage calculations, I.V. flow rates, drug compounding, dose conversions, dispensing of prescriptions, inventory control and billing and reimbursement. PRE: Foundations of Medicine and Health Science and Structure of the Human Body

AUTOMOTIVE TECHNICIAN (ASE)

This Completer Program provides the student with the knowledge and skills necessary to pass the NATEF end of course assessment for Electrical/Electronic Systems, Suspension and Steering, Brakes, and Engine Performance. The courses required for completer status are: 815, 816, 817, 818

AUTOMOTIVE TECHNICIAN 1: SUSPENSION AND STEERING

815 1 Credit Grade 10

This course provides the student with the knowledge and skills necessary to pass the NATEF end-of-course assessment for Automobile Suspension and Steering. Students develop diagnostic, technical, problem-solving and academic skills through classroom instruction and hands-on maintenance applications. Through theory and real-world experiences, students master the concepts and the ability to research applicable vehicle and service information, collect and analyze relevant data, troubleshoot, identify, formulate proposed solutions to problems and perform necessary automobile suspension and steering repair tasks. Students will use state-of-the-art precision steering and alignment measurement tools and equipment to gather, analyze and make necessary repairs. This is the first course of a four-course sequence required for the Automotive Technician Completer Program.

AUTOMOTIVE TECHNICIAN 2: BRAKES

816 1 Credit Grade 11

This course provides the student with the knowledge and skills necessary to pass the NATEF end-of-course assessment for Automobile Brakes. Students develop diagnostic, technical problem-solving and academic skills through classroom instruction and hands-on maintenance applications. Through theory and real-world experiences, students master the concepts and the ability to research applicable vehicle and service information, collect and analyze relevant data, troubleshoot, identify, formulate proposed solutions to problems and perform necessary automobile brake diagnosis and repair tasks. Students will use state-of-the art precision brake measurement tools and equipment to gather, analyze and make necessary NATEF required brake repairs tasks. This is the second course of a four-course sequence required for the Automotive Technician Completer Program. PRE: Automotive Technician 1: Suspension and Steering

AUTOMOTIVE TECHNICIAN 3: ELECTRICAL/ELECTRONIC SYSTEMS

817 1 Credit Grade 12

This course provides the student with the knowledge and skills necessary to pass the NATEF end-of-course assessment for Automobile Electrical/Electronic Systems. Students develop diagnostic, technical problem-solving and academic skills through classroom instruction and hands-on maintenance applications. Through theory and real-world experiences, students master the concepts and the ability to research applicable vehicle and service information, collect and analyze relevant data, troubleshoot, identify, formulate proposed solutions to problems and perform necessary automobile electrical and electronic systems repair tasks. Students will use

state-of-the-art precision electronic measurement tools, fault code reads and equipment to gather, analyze make necessary NATEF required electrical and electronic system repairs. This is the third course of a four-course sequence required for the Automotive Technician Completer Program. PRE: Automotive Technician 2: Brakes

AUTOMOTIVE TECHNICIAN 4: ENGINE PERFORMANCE

818 1 Credit Grade 12

This program provides the student with the knowledge and skills necessary to pass the NATEF end-of-program assessment for Brakes, Steering, Electrical, Automobile Engine Performance and immediately enter a career in this area and/or attend postsecondary education and/or training. Students develop diagnostic, technical problem-solving and academic skills through classroom instruction and hands-on maintenance applications. Through theory and real-world experiences, students master the concepts and the ability to research applicable vehicle and service information, collect and analyze relevant data, troubleshoot identify, formulate proposed solutions to problems and perform necessary automobile engine performance troubleshooting and repair tasks. Students will use state-of-the-art precision electronic engine performance measurement tools, fault code readers and equipment to gather, analyze make necessary NATEF required engine performance repairs. This is the fourth course of a four-course sequence required for the Automotive Technician Completer Program. PRE: Automotive Technician 3: Electrical/Electronic Systems L/C,

CONSTRUCTION TRADES (NCCER)

National Center for Construction Education & Research

Students completing the Construction Trades program will take the NCCER Core Certification test. The courses required for completer status are: 835, 856, 857, 858

CARPENTRY 1: FOUNDATIONS OF BUILDING AND CONSTRUCTION TECHNOLOGY

835 1 Credit Grade 10

This course is the Core Curriculum of the Construction and Development Cluster. The NCCER Core Curriculum is taught within this course and the basis for all construction skills The course of study descriptions correlates to the modules of the NCCER national standards and related work-based learning opportunities. The course of study includes demonstration of student mastery of the following topics: basic safety, introduction to construction math, introduction to hand tools, introduction to power tools, introduction to blueprints, basic rigging, and hands-on experience.

CARPENTRY 2: CARPENTRY I/ LEVEL I

856 1 Credit Grade 11

The Carpentry program provides students an opportunity to learn about the home-building industry. Participants master a variety of construction skills. Students apply their knowledge and skills by participating in school/lab-based and work-based projects. The course of study descriptions correlates to the modules of the NCCER national standards. Carpentry I/Level I includes demonstration of student mastery of the following: wood building materials, fasteners and adhesives, hand and power tools, floor systems, wall and ceiling framing, roof framing, and windows and exterior doors. This is the second course of a four-course sequence required for the Construction Trades Completer Program. PRE: Carpentry 1: Foundations of Building and Construction Technology

CARPENTRY 3 and 4: CARPENTRY II/ LEVEL II

857 1 Credit Grade 12
858 1 Credit Grade 12

This course is two semesters and builds on the foundation of knowledge from Foundations of Building and Construction and Carpentry I/Level I. The course of study for Carpentry II includes demonstration of student mastery of the following topics: reading plans and elevations, site layout one-distance measurement and leveling, introduction to concrete and reinforcing materials, foundations and flatwork, concrete forms, reinforcing concrete, handling and placing concrete and manufactured forms. These are the third and fourth courses of a four-course sequence required for the Construction Trades Completer Program. PRE: Carpentry 2 – Carpentry 1 Level I

L/C, $

At the conclusion of this program, students will take the NCCER certification exam.

L/C, $

FIRE AND RESCUE

The Fire and Rescue program will be taught by certified instructors from the Maryland Fire and Rescue Institute of the University of Maryland. Both classroom and practical sessions will be conducted off school property at the Upper Eastern Shore Regional Training Center of the Maryland Fire and Rescue Institute. This program is taught off-campus in Queen Anne's County. Students must provide their own transportation to and from class. Operating as members of the Fire and Rescue service requires good health and physical condition. Individuals with physical or medical conditions, which may limit their full and active participation, may not be eligible for this program. **NOTE:** Must be a member of a local fire department and at least 16 years old. Students must be on track for graduation with an approval from their guidance counselor.

Recommendation: ***Students are highly encouraged to complete Anatomy and Physiology before applying for this program.***

The courses required for completer status are: 8005, 8006, 8007, 8008

FIRE & RESCUE 1 – EMERGENCY MEDICAL CARE

8006 1 Credit Grade 12

Topics in this course include: the human body, infectious diseases, medical issues, vital signs, sample history, skills practice, lifting/moving patients, airways, CPR, patient assessments, various medical emergencies, trauma, pediatric emergencies, and ambulance operations. Students in this course must pass all eight modular exams with a minimum of 70%, meet the attendance requirements for the course and receive a satisfactory evaluation by the instructor. A written and practical examination for certification is administered by the Maryland Institute for Emergency Medical Services System as part of this course.

 L/C

FIRE & RESCUE 2 – FIREFIGHTER 1

8007 1 Credit Grade 12

Topics in this course include: fire service organization/communications, fire behavior, life safety/fire prevention, portable fire extinguishers, introduction to respiratory protection, self-contained breathing apparatus, hose and streams, rope and knots, forcible entry, ventilation ladders, search and rescue, property conservation, wildland fire fighting, structural fire fighting, and fire ground fire rescue operations. Students enrolled in this course must pass a mid-term and final examination with a minimum score of 70%, meet the attendance requirements for the course and receive a satisfactory evaluation by the instructor.

 L/C

FIRE & RESCUE 3 – HAZARDOUS MATERIALS ,OPERATIONS RESCUE TECHNICIAN

8005 1 Credit Grade 12

In order to receive a "HazMat" Certificate, the following criteria must have been met. Students

should receive a minimum score of 70% on the mid-term and final examination. The objective of this course is to provide the student with the knowledge and skills to perform hazardous materials first response. Upon successful completion of this course, the student will be able to analyze a hazardous materials incident, plan an initial response, implement the response, and evaluate the progress of the actions taken. Major topics covered in this course include firefighter safety, regulations and standards, chemistry, recognition and identification, DOT guidebook, site management, container behavior, defensive control measures, personal protective equipment and decontamination. Methods of instruction include lecture, discussion, classroom exercise and/or visual material, practical exercise, quizzes, observations, written examinations and final examination.

The objectives of the NERTBC course are to provide training for first responders responding to acts of terrorism. This is an introductory course providing awareness of the growing problem and safety considerations for first responders at terrorism response. Upon successful completion of this course, the student will be able to recognize the potential dangers of the first responder to acts of terrorism; demonstrate basic understanding of circumstances that indicate an act of terrorism; define self-protective measures, define scene control principles; recommend basic tactics and response to acts of terrorism; and recognize the elements on command and control to acts of terrorism. Methods of instruction include lecture, discussion, individual group activities, scenarios, case studies, classroom exercises, audio/visual materials, and final examination.
The objective of the ECFO course is to provide the student with the fundamental principles of engine company operations and how they can be integrated during fireground operations. Upon successful completion of this course, the student will be able to describe the functions and responsibilities of the engine company and demonstrate the use of nozzles, hose, hydrants, foam, and testing equipment during practical evolutions. Methods of instruction include lecture, discussion, audio/visual material, practical skills exercise, final written examination, and required assignments.

 L/C

FIRE & RESCUE 4 – RESPONSE TO TERRORISM , FIREGROUND OPERATIONS

8008 1 Credit Grade 12

The objective of the TCFO course is to provide the student with the fundamental principles of truck company operations and how they are integrated during fireground operations. Upon successful completion of this course, the student will be able to demonstrate forcible entry, search and rescue, ventilation, salvage, overhaul and ladders. Major topics covered in the course are the function and responsibilities of the truck company, forced entry, ground ladder use, techniques and procedures for locating victims, techniques for removal of smoke and gases, salvage operations, checking for fire extension, procedures for overhauling, building construction, utility control, and electrical and lighting the fireground. Methods of instruction include lecture, discussion, audio/visual material, practical skills exercises, final examination and required assignments.

The objective of the RTVMR course is to prepare the student to approach each rescue incident with attention focused on the importance of proper operational planning and all related components for effective safe site operation, victim management, equipment maintenance and inspection with particular emphasis on vehicular and machinery rescue. Upon successful completion of this course, the student will be able to recognize and implement the five phases of operational planning, understand and utilize technical rope rescue when needed; and properly package and transport a victim from a vehicular or machinery rescue. Major topics covered in this program include the five phases of successful site operations, rescue management, personal protective equipment, up-size activities, hazard identifications, search and rescue, ground support, incident management and termination, victim management, and rope rescue operations; maintenance and inspection of rope; rigging, anchoring and mechanical advantage; patient

packing and transfer during rescue operations; slope operations and evacuation; vehicular stabilization and extrication; specialty tools, hand tools, power and hydraulic tools; vehicular design; autos, busses, trucks, elevators, escalators, farm equipment, and mining/industrial equipment/machinery.
L/C

FM BROADCASTING

This course sequence provides opportunities for students to practice broadcasting at WKHS and intern at local community radio stations. Additionally, students may develop Webmaster and digital sound tracks. A strong English and computer skill set is recommended. The courses required for completer status are: 801, 802, 803, 804

FM BROADCASTING 1: INTERACTIVE MEDIA

801 1 Credit Grade 10

This course provides students with an understanding of all aspects of the Arts, Media and Communication industry. Students examine opportunities and requirements of the major career pathways in this industry including: Communication and Broadcast Technologies, Multimedia Production, Digital Art and Print Communication. Students demonstrate corporate/business communication and technical writing and understand the ethics and security necessary in the field. Students apply principles of design and use technology in the development of projects. The concept of mass communication, broadcast technology, and interactive media will be explained. This is the first course of a four-course sequence required for the FM Broadcasting Completer Program.

FM BROADCASTING 2: BROADCAST COMMUNICATIONS

802 1 Credit Grade 11

This course introduces students to the high school radio station 90.5 FM WKHS. Students study all aspects of the school's broadcasting curriculum including public speaking, news writing, FCC laws, current events, production, programming, and the effects of radio. Each student will be given the opportunity to conduct an "on-air " shift. This is the second course of a four-course sequence required for the FM Broadcasting Completer Program. PRE: FM Broadcasting 1: Interactive Media

FM BROADCASTING 3: BROADCAST PRODUCTIONS

803 1 Credit Grade 12

Students perform all functions at the high school radio station, 90.5 FM WKHS. In addition, students study advanced production techniques used in the trade. This is the third course of a four-course sequence required for the FM Broadcasting Completer Program. PRE: FM Broadcasting 2: Broadcast Communications

FM BROADCASTING 4: BROADCAST PROGRAMMING

804 1 Credit Grade 12

In addition to continuing with day to day operations of the radio station, students will learn programming techniques, including music scheduling, operations scheduling, promotions, dealing with record companies, reporting to trade publications, and the effects of certain materials on the listening public. The broadcasting program has an articulation agreement with Goucher College, Community College of Baltimore, Harford Community College, and Hagerstown Junior College. In addition, WKHS can provide students with opportunities to obtain internships in the field upon reaching their senior year.
This is the fourth course of a four-course sequence required for the FM Broadcasting Completer Program. PRE: FM Broadcasting 3: Broadcast Productions

FOOD AND BEVERAGE MANAGEMENT

This completer program introduces students to the variety of careers that exist within the foodservice and hospitality industry. Students will take the nationally recognized certification exams: ServSafe and ProStart. Students will learn proper food and workplace safety and sanitation techniques along with a variety of food preparation skills. Students completing the Food and Beverage Management program will take the National ProStart Certification test. Students can begin to accrue hours to meet the 400 hour work based learning requirement. One-hundred and fifty (150) of the 400 hours can be earned through in-class clinical experience.
The courses required for completer status are: 695, 696, 697, 698

FOOD AND BEVERAGE MANAGEMENT 1: BECOMING A FOOD SERVICE PROFESSIONAL I

695 1 Credit Grade 10

This course provides an introduction to the food service and hospitality industry. Students develop and demonstrate skills in safe and sanitary food handling and preparation techniques. Students learn to prepare a variety of foods. They develop a broad understanding of the variety of career options available in the food service and hospitality industry, and have the opportunity to earn the ServSafe Credential. All students enrolled must take the National Restaurant Association Education Foundation end-of course exam – SERV-SAFE Certification. This is the first course of a four-course sequence required for the Food and Beverage Management Completer Program.

FOOD AND BEVERAGE MANAGEMENT 2: BECOMING A FOOD SERVICE PROFESSIONAL LEVEL II

696 1 Credit Semester Grade 11

Students enrolled in this course will continue to prepare a variety of foods. They will create menus and demonstrate various types of restaurant service. They will apply purchasing techniques and demonstrate an understanding of inventory monitoring and control. This is the second course of a four-course sequence required for the Food And Beverage Management Completer Program. PRE: Food and Beverage Management 1: Becoming a Food Service Professional I

FOOD AND BEVERAGE MANAGEMENT 3 & 4: PRACTICAL EXPERIENCE AS A FOOD SERVICE PROFESSIONAL

697 1 Credit Grade 12
698 1 Credit Grade 12

This course provides students with the opportunity to further refine and apply skills that support all aspects of the hospitality industry. It will assist in preparing students for employment and advancement in the field of hospitality and food and beverage management. Students successfully completing this course will be able to: explore job market and employment opportunities; apply the fundamentals of managing a food service establishment; explain and demonstrate the skills necessary for transition from school to a professional setting; apply the foundation knowledge of safe and sanitary food preparation and food handling techniques; apply the foundation knowledge in order to prepare a wide variety of foods; recognize the array of career options available to a food service professional; apply and understand concepts of mathematics and measurement; continuously update academic, technical and workplace skills through clinical applications, demonstrate and apply knowledge and skills acquired during in-school clinical and work-based learning experiences; and earn the National ProStart Certificate of Achievement. These are the third and fourth course of a four-course sequence required for the Food and Beverage Management Completer Program. PRE: Food and Beverage Management 2: Becoming a Food Service Professional Level II L/C, $

PRE- ENGINEERING (PLTW)

This completer program is a Nationally recognized program. Students have the opportunity to earn college credit in each course through the end of course assessment. A strong mathematics background is needed to be successful. This five course program prepares students for careers in engineering related fields. Students are engaged in solving complex problems using the engineering design process. Students represent their solutions with both technology and 3D models. For more information about PLTW visit www.pltw.org. The courses required for completer status are: 881, 883, 882, 884, 885

PRE-ENGINEERING 1: INTRODUCTION TO ENGINEERING DESIGN (IED)

881 1 Credit Grade 9-10

This course is the Project Lead the Way (PLTW) introductory course that develops student problem solving skills with emphasis placed on the development of three-dimensional solid models. Students begin the design process by developing sketches into complex geometric shapes by applying a solid modeling computer software package. Students learn problem solving design process and how it is used in industry to manufacture a product. The Computer Aided Engineering System (CAE) is also used to analyze and evaluate the product design. State of the art techniques and equipment used by engineers throughout the U.S. will be presented. PRE: Completion of or concurrent with Algebra I.

 $

PRE-ENGINEERING 2: PRINCIPLES OF ENGINEERING (POE)

883 1 Credit Grade 10

This course is a broad-based applied physics course designed to help students understand the field of engineering and engineering technology and its career possibilities. Students develop engineering problem solving skills that are involved in post-secondary education programs and engineering careers. Students explore various engineering systems and manufacturing processes, as well as ethical issues that engineers' address related to social and political consequences of technological change. PRE: Pre-Engineering 2: Digital Electronics (DE).

PRE-ENGINEERING 3: DIGITAL ELECTRONICS (DE)

882 1 Credit Grade 11

Digital Electronics (DE) is a course of study in applied digital logic. Students are introduced to digital circuits found in video games, watches, calculators, digital cameras, and thousands of other devices. Students study the application of digital logic and how digital devices are used to control automated equipment. The use of digital circuitry is present in virtually all aspects of our lives and its use is increasing rapidly. This is a course of study for a student exploring a career in engineering or engineering technology. PRE: Pre-Engineering 1: Introduction to Engineering Design (IED), Pre Engineering 2 : Principles of Engineering

 $

PRE-ENGINEERING 4: CIVIL ENGINEERING AND ARCHITECTURE (CEA)

884 1 Credit Grade 11 or 12

The major focus of the Civil Engineering and Architecture (CEA) course is a long-term project that involves the development of a local site. As students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of this property. This course is intended to serve as a specialization course within the PLTW Pre-Engineering Program. The course is structured to include project planning, site planning, and building design thus enabling all students to have a variety of experiences that will provide an overview of both fields. Students work in teams, exploring hands-on projects and activities to learn the characteristics of civil engineering and architecture. PRE: Pre-Engineering 3: Principles of Engineering (POE)

 $

PRE-ENGINEERING 5: ENGINEERING DESIGN AND DEVELOPMENT (EDD)

885 1 Credit Grade 12

Engineering Design and Development (EDD) students design and construct the solution to an engineering problem, (original, taken from a database of problems, or a national challenge) applying the principles developed in the four preceding courses. Students maintain a journal as part of a portfolio of their work. Students are responsible for delivering progress reports and making final presentations of their project to an outside review panel. The completed portfolio is invaluable as students apply to college. Students are encouraged to enroll in a work-based learning experience as well.

PRE: Pre Engineering 3 :Digital Electronics concurrent or completion of
Pre-Engineering 4: Civil Engineering and Architecture (CEA) 

TEACHER ACADEMY OF MD

The Teacher Academy of Maryland is a CTE instruction program that aligns with the Interstate Teacher Assessment and Support Consortium (InTASC) and the Maryland Essential Dimensions of Teaching (EdoTs). The program prepares students for further education and careers in the education profession. The credits earned in this program are designed to articulate to a Maryland post secondary teacher program. Upon completion of the program and passing the ParaPro test, high school graduates are ready for employment in the teaching profession. This program is based on the outcomes of the Maryland Associate of Arts in Teaching (A.A.T.) degree, which aligns with National Council for Accreditation for Teacher Education (NCATE) standards. Students can earn transcripted credit.

TEACHER ACADEMY 1 - HUMAN GROWTH AND DEVELOPMENT THROUGH ADOLESCENCE

8002 1 Credit Grade 10-11

This course focuses on human development from birth through adolescence. Emphasis is placed on theories of physical, cognitive, and psychological development, the effect of heredity and the environment, the role of caregivers and the family, health and safety concerns, and contemporary issues. Students explore special challenges to growth and development. Students will have opportunities for guided observation of children from birth through adolescence in a variety of settings to help students further understand theories of human development. Students will begin to develop the components of a working portfolio to be assembled upon completion of the internship.

TEACHER ACADEMY 2 - TEACHING AS A PROFESSION

8001 1 Credit Grade 10-11

This course focuses on the profession of teaching—its history, purposes, issues, ethics, laws and regulations, roles, and qualifications. Emphasis is placed on identifying the current, historical, philosophical and social perspectives of American education, including trends and issues. Students will explore major approaches to human learning. Students will participate in guided observations and field experiences in multiple settings to help them assess their personal interest in pursuing careers in this field and to identify effective learning environments. Students will continue to develop the components of a working portfolio to be assembled upon completion of the internship.

TEACHER ACADEMY 3 -FOUNDATIONS OF CURRICULUM AND INSTRUCTION

8003 1 Credit Grade 12

This course explores curriculum delivery models in response to the developmental needs of all children. Emphasis is placed on the development of varied instructional materials and activities to promote learning, classroom management

strategies, and a supportive classroom environment. Students will explore basic theories of motivation that increase learning. Students will participate in guided observations and field experiences to analyze classroom lessons in preparation for developing and implementing their own. Students will continue to develop the components of a working portfolio to be assembled upon completion of the internship. PRE: Teacher Academy 1 and 2

TEACHER ACADEMY 4 - EDUCATION ACADEMY INTERNSHIP

8004 1 Credit Grade 12

The internship is the culminating course of the Teacher Academy of Maryland Program. Students will have an opportunity to integrate content and pedagogical knowledge in an educational area of interest. They will have an opportunity to extend and apply their knowledge about teaching in a classroom setting under the supervision of a mentor teacher. The students will complete their working portfolio and present it for critique. Students will take the ParaPro test at the end of the program. PRE: Teacher Academy 1,2,3

Work Based Learning

Internship

INTERNSHIP

997 1 Credit Grade 12

The internship program gives students opportunities to explore careers at community businesses or agencies. Under the supervision of their sponsor, they observe and participate in workday activities. Students are evaluated every two weeks by their site supervisors and earn pass/fail grades(s) as well as high school credit(s). Students must maintain passing grades in their academic courses to stay enrolled in the internship program. Students must provide their own transportation. It is the responsibility of the student to obtain employment. PRE: This employment site must be approved.

ENGLISH LANGUAGE ARTS

The English Language Arts program includes a mandatory four-course sequence of English I, II, III or AP English Language and Composition, IV or AP English Literature and Composition, supported by a series of electives that helps students expand their knowledge and application of language arts skills and explore personal interests.

AP ENGLISH LANGUAGE AND COMPOSITION

140 1 Credit Grade 11

This is a rigorous course in which students will read diverse selections representative of many prose styles and genres. Students are engaged through the reading of prose written in a variety of periods, disciplines, and rhetorical contexts. They become skilled writers who compose for a variety of purposes. Students develop an awareness of the interactions among a writer's purpose and audience's expectation. In addition, students will gain understanding of the conventions of language and how they contribute to the effectiveness of writing. Extended summer reading and writing assignments are required. The purchase of some support material is optional. Materials may be borrowed from the public library. *Students and parents are advised that required assignments may involve reading material that is sophisticated and mature in nature*. Students enrolled in an AP course must take The College Board exam at the conclusion of this course. Approximate cost of the AP Exam is $94.00 (subject to change). PRE: English II or Honors English II, PARCC Passing Score.

 $

AP ENGLISH LITERATURE AND COMPOSITION

150 1 credits Grade 12

An AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen

their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes. Students will analyze the use of figurative language, imagery, symbolism, and tone. In addition, extended summer reading and writing assignments are required. The purchase of some support material is optional. Materials may be borrowed from the public library. *Students and parents are advised that required assignments may involve reading material that is sophisticated and mature in nature*. Students enrolled in an AP course must take The College Board exam at the conclusion of this course. Approximate cost of the AP Exam is $94.00 (subject to change). Financial assistance is available for qualified students. Please see your counselor with questions or concerns. PRE: English III or AP English Language and Composition, PARCC or Accuplacer passing score

 $

ENGLISH I

100 1 Credit Grade 9

This course offers a survey of high-level language arts skills with special emphasis on interpreting and responding to literature. Students continue to develop literacy skills including reading, writing, speaking, and listening processes. Grammar, usage, and conventions are taught as a component of the course and within the context of authentic reading and writing experiences including personal reflection and narrative response. Summer reading and writing assignments are required. Purchase of summer reading material is optional. Materials may be borrowed from the local high school or public library.

HONORS ENGLISH I

195 1 Credit Grade 9

This course allows students to apply language art skills emphasizing high-level critical thinking and writing strategies through an accelerated and extended curriculum. The Shared Inquiry method is utilized to enrich the student's literary experiences. Grammar, usage, and conventions are taught as a component of the course and within the context of authentic reading and writing experiences. Advanced/Extended reading and writing assignments with follow-up requirements are part of this course. Additional summer reading and writing assignments are required and will become part of the student portfolio. The purchase of some reading/support material is optional. Materials may be borrowed from the public library. PRE: B average in Grade 8 ELA 

ENGLISH II

110 1 Credit Grade 10

This course offers a broad range of world literature, fiction and nonfiction, and includes high-level language arts skills with special emphasis on interpreting and responding to literature. Students continue to develop literacy skills including reading, writing, speaking, and listening processes. Grammar, usage, and conventions are taught as a component of the course and within the context of authentic reading and writing experiences. Summer reading and writing assignments are required. Purchase of summer reading material is optional. Materials may be borrowed from the local high school or public library. PRE: B average in Grade 9 TEST

HONORS ENGLISH II

196 1 Credit Grade 10

This course offers a broad range of world literature, fiction and nonfiction, emphasizing high-level critical thinking and writing skills through an accelerated and extended curriculum. Students will read and analyze advanced/extended texts and will hold Socratic discussions of literature. Grammar, usage, and conventions are taught as a component of the course and within the context of authentic reading and writing experiences including analysis and exposition. Students and parents are advised that required assignments may involve reading material that is sophisticated and mature in nature. Additional class reading and writing assignments (both summer and during course) are included. Summer reading and writing assignments are required. The

purchase of some support material is optional. Materials may be borrowed from the public library. PRE: B Average in Grade 9

 TEST

ENGLISH III

120	1 Credit	Grade 11
121	1 Credit	Grade 11

This course traces the development of American literature from the Pre-Colonial Period to the present. High-level language arts skills with special emphasis on interpreting and responding to literature are included. Students continue to develop literacy skills including reading, writing, speaking, and listening processes. Grammar, usage, and conventions are taught as a component of the course and within the context of authentic writing experiences including analysis and persuasion. Students are required to complete research projects of extended length and appropriate MLA attribution. Summer reading and writing assignments are required. The purchase of some support material is optional. Materials may be borrowed from the public library.
PRE: English 120- PARCC Passing Score
PRE: English 121 – PARCC Non Passing Score

ENGLISH IV

130	1 Credit	Grade 12
131	1 Credit	Grade 12

This course focuses on the great works of British literature with discussions and research concentrating on the influences of culture, period, and philosophy. High-level language arts skills with special emphasis on interpreting and responding to literature are included. Through the instruction of the curriculum, students continue to develop literacy skills including reading, writing, speaking, and listening processes. Grammar, usage and conventions are taught as a component of the course and within the context of authentic reading and writing experiences. Students are required to complete research projects of extended length and appropriate MLA attribution is required. Summer reading and writing assignments are required. The purchase of some support material is optional. Materials may be borrowed from the public library. PRE: Accuplacer
PRE: English 130- PARCC Passing Score
PRE: English 131 – PARCC Non Passing Score

JOURNALISM

153	1 Credit	Grades 10-12

Journalism is a course designed for students interested in newspaper journalism and developing their skills as a writer. This course explores the contemporary media and the ethical responsibility issues adherent to the press today. Students will learn the fundamentals of news, feature, editorial and sports writing. Students will create original stories for The Priam (Kent County High School's newspaper) as well as support the schools social media presence.

READING I

179	1 Credit	Grades 9-10

Research-based reading interventions provide the curriculum for this course. The course includes direct instruction and practice in reading skills emphasizing decoding strategies and word/phrase comprehension. Introduction to vocabulary, context clues, and multiple meaning words as well as paragraph comprehension are the focus for reading comprehension. PRE: Teacher Recommendation RC

READING II

180	1 credit	Grades 9-10

The course provides development of core reading skills, emphasizing vocabulary, comprehension, and critical thinking. Vocabulary skills include dictionary use, word components and etymology, context clues, and multiple meanings of words. Reading strategies are practiced with both literary and informational texts. Critical reading skills include comprehension and fluency. PRE: Teacher Recommendation RC

YEARBOOK PRODUCTION
154 1 Credit Grade 11-12

Students in this course are responsible for the Trojan Yearbook in terms of feature writing, publication design, planning, and photography. In addition to compiling the yearbook, students will put together a business and marketing plan in order to keep the account in the "black." RC

FINE ARTS

Art

AP STUDIO ART
645 1 Credits Grade 11-12

Students choose between one of three portfolios: Drawing, 2-Dimensional Design, or 3-Dimensional Design. All students must take the AP Exam in May. Students enrolled in an AP course must take The College Board exam at the conclusion of this course. Approximate cost of the AP Exam is $94.00 (subject to change). Financial assistance is available for qualified students. Please see your counselor with questions or concerns. PRE: Intro to Art, Painting/Drawing
 $

INTRODUCTION TO ART
600 1 Credit Grades 9-12

Students examine and practice the basic techniques of drawing, painting, ceramics, sculpture, and mixed media. Students also study selected artists and periods of history. The Elements of Art and the Principles of Design are emphasized through the study and creation of artwork. This course is a prerequisite for all other art courses.

DIGITAL ART
642 1 Credit Grades 10-12

This advanced visual art course introduces students to various graphic and design techniques. Students employ computer design applications such as PhotoShop in the creation of their artwork. Students also learn how to use digital cameras and Adobe Photoshop collaboratively. PRE: Intro to Art

PAINTING/DRAWING
610 1 Credit Grades 10-12

This advanced visual art course emphasizes a comprehensive approach to drawing and painting in a variety of techniques and materials to produce expressive, quality works of art. A historical perspective of painting and artists in both Western and non-Western cultures is included. An emphasis is placed on the Principles of Design and Elements of Art as they relate to composition, application of art materials, and creativity. PRE: Intro. to Art.

PRINTMAKING
630 1 Credit Grades 10-12

This is an advanced art course that utilizes previously learned skills in Introduction to Art for the creation of multiple images. The printmaking methods of relief, intaglio, and screen-print will be examined through the study of various Western and non-Western artists and time periods. In-depth studies of drawing techniques will be included. PRE: Intro to Art.

SCULPTURE/POTTERY
620 1 Credit Grades 10-12

This is an advanced art course that examines a variety of techniques and materials for the construction of functional and non-functional three-dimensional forms. Clay, wood, plaster, papier-mâché, and other non-traditional materials may be explored. Historical and cultural study will be included. PRE: Intro to Art.

Performing Arts

BAND
683 1 Credit Grades 9-12

Students explore various performance techniques using contemporary band literature. Topics include show and drill design and the use of

choreography to enhance music performance. The band performs at various programs throughout the year and attendance is required. All students who have had instrumental instruction in the middle school are encouraged to continue their study of music in this class. RC

DANCE
659 1 Credit Grades 9-12

This fine arts course introduces students to a variety of dance techniques and the fundamentals of movement. Students study beginning ballet, modern and jazz dance as well as dance history, physiology, choreography and critique. Students are required to participate in public performances and must be prepared to purchase or provide proper shoes and dance attire. RC

DRAMA I
152 1 Credit Grades 9-12

This course emphasizes all aspects of theatre as an examination of the human experience. Students learn the history and development of drama and explore the creative process through theatrical activities such as improvisations, preparation and presentations of scenes. Students demonstrate the ability to critique performances of plays and scenes. Units on voice and body control, mime, improvisation, script writing, set design, costume design, dramatic reading, and dramatic production included.

DRAMA II
157 1 Credit Grades 10-12

This course introduces students to the technical aspects of theatre. The students gain knowledge of the design and technical elements of sets, lighting, sound, costumes and make-up, and apply them to production situations. Students demonstrate the ability to recognize and describe the development of a variety of dramatic forms and the aesthetic qualities they reflect. In addition, students demonstrate an understanding of the history, traditions, and conventions of theatre dramatic texts and other literature of the theatre, and ways that diverse theories and forms of theatre satisfy cultural needs past and present. PRE: Drama and Communications I. RC

JAZZ BAND
680 1 Credit Grades 10-12

Students explore various performing techniques using contemporary jazz literature. The class focuses on improving improvisational skills, and sight-reading techniques through ensemble performances. The band performs at various programs throughout the semester and attendance is required. All students who have had instrumental instruction in middle school are encouraged to continue their study of music in this class. RC

Music

CHORUS
660 1 Credit Grades 9-12

This course is designed for all students who may have a background in singing or have a strong interest in vocal music and a desire to enhance their vocal training. Proper vocal techniques will be addressed to enhance the ability of each singer. Students participate in a variety of choral activities with an emphasis on the development of large and small performing groups. RC

MATHEMATICS

All students must earn at least four mathematics credits, one credit per year, during grades 9-12. Two credits must meet Maryland COMAR Regulations in Algebra 1 and Geometry.

The National Collegiate Athletic Association (NCAA) and some post secondary institutions do not accept high school credits earned while in a middle school.

In order to meet NCAA admissions requirements and/or be eligible to participate in college athletics, students must earn three (3) mathematics credits through Algebra II during grades 9-12. The NCAA determines the courses for which credit is awarded.

PRINCIPLES OF ALGEBRA

425 1 Credit Grade 9

This year- long course is designed for incoming ninth grade students who need additional instruction prior to taking Algebra 1. Calculators and computers are used in problem solving situations and in the development of number sense, Algebra, Geometry, measurement, probability, and statistics concepts and skills. Note: This is not approved for NCAA eligibility PRE: Teacher Recommendation

ALGEBRA I

445 1 Credit Grade 9
420 1 Credit(Math lab) Grades 9 -10

The course consists of study and application of the principles of Algebra, statistics, and data analysis, as defined by the Maryland Common Core Mathematics Standards. Students investigate, interpret, and communicate solutions to mathematical and real world problems, using patterns, functions, and algebraic reasoning. Students also apply probability and statistical methods for representing and interpreting data and communicating results using technology where appropriate.

ALGEBRA II

440 1 Credit Grade 10, 11
441 1 Credit Grade 12

In this course, students develop their thinking, problem solving, and reasoning skills through the application of algebraic concepts. Course topics include functions, graphing, polynomial operations, rational expressions, radicals, complex numbers, solving quadratic equations, and laws of exponents. This course is based on the Common Core Mathematics Standards. PRE: Algebra I, Geometry

ADVANCED TOPICS IN ALGEBRA II

442 1 credit Grade 12

This course is designed to further student understanding of content initially presented in Algebra II. Topics include linear, quadratic, radical, exponential, and logarithmic functions as well as applications of algebraic functions. This course was developed collaboratively to prepare students for entry into a college level, credit bearing mathematics course. PRE: Algebra II, Algebra II PARCC Non passing score or remedial Accuplacer.

AP CALCULUS AB

470 1 Credit Grade 11-12

This course provides college level instruction and prepares students to take the AP Calculus exam. Students are required to take the AP Exam in May. The course introduces students to the fundamentals and applications of both differential and integral calculus. The course requires an array of analytical, reasoning, and problem-solving skills, which will continue to be embellished and enhanced. Topics include limits, derivatives and their applications, integration techniques and applications, and transcendental functions. Students enrolled in an AP course must take The College Board exam at the conclusion of this course. If a student does not take the AP exam, the AP title will be removed from the course on the final transcript. Approximate cost of the AP Exam is $94.00 (subject to change). Financial assistance is available for qualified students. Please see your counselor with questions or concerns.
PRE: Pre-Calculus, Trigonometry or Calculus

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CALCULUS

463 1 Credit Grades 11-12

Calculus is designed to provide students with initial preparation for the Advanced Placement Calculus AB course or a Calculus course in college. Topics include functions, limits and their properties, differentiation, and application of differentiation. PRE: Pre-Calculus

AP COMPUTER SCIENCE A

776 1 Credit Grades 11-12

The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data

(algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. Approximate cost of the AP Exam is $94.00 (subject to change). Financial assistance is available for qualified students. Please see your counselor with questions or concerns.
PRE: Algebra II , Can Be used as a 5th math credit for a senior. Otherwise , this is an elective credit.

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AP COMPUTER SCIENCE PRINCIPLES

775 1 Credit Grades 11-12

The AP Computer Science course introduces students to computer science with fundamental topics that include problem solving, design strategies, and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. Approximate cost of the AP Exam is $94.00 (subject to change). Financial assistance is available for qualified students. Please see your counselor with questions or concerns.
PRE: Algebra II , Can be used as a 5th math credit for a senior .Otherwise , this is an elective credit

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GEOMETRY

450 1 Credit Grades 9-10 -Passing PARCC Algrbra 1 Score
451 1 Credit Grades 11-12- Non Passing PARCC 1 Score

In this course, students investigate topics in two and three-dimensional Euclidean Geometry. Proofs and geometric applications are examined in detail to reinforce and enhance the reasoning abilities and thinking skills of the students. Students solve mathematical and real-world problems and justify solutions, using measurement and geometric models. Topics, as defined by the Common Core Mathematics Standards for Geometry, include similar and congruent polygons, the Pythagorean Theorem, circles, constructions, area, perimeter, volume, coordinate geometry, solid geometry, and transformations.
PRE: Grade 9-10 Passing PARCC Algebra 1 Score.
Grade 11-12 : Algebra 1

STEM GEOMETRY

465 1 Credit Grade 9

This course is for students who are enrolled in the STEM program and have completed STEM Algebra I. This is a rigorous class, which incorporates topics in a hands-on, real-world discovery approach. The STEM Geometry course exposes students to the ideas and applications of mathematical modeling and geometric proof to enhance students' problem solving and reasoning skills. Topics, as defined by the Common Core State Standards for Geometry, include constructions, transformations, volume, and right triangle trigonometry.
PRE: STEM Alg. I, Passing PARCC Algebra 1 Score

INTERMEDIATE ALGEBRA

433 1 Credit Grades 10-11

The major emphasis in this course will be on the study of system of linear equations and inequalities as well as quadratic, exponential and absolute value function families. Students will perform operations with polynomials and radicals and will solve quadratic, rational and radical equations. This course is based on the Common Core Mathematics Standards. Note: This course is not approved for NCAA eligibility.
PRE: Algebra1, Non passing PARCC Algebra 1 score

MATH LAB
424 1 Credit Grade 9

This course is taken with Algebra I, 420 Research based math interventions provide the curriculum for this course. This course includes direct instruction and practice in mathematical skills emphasizing math skills and procedures and the use of multi representations.
PRE: Teacher Recommendation

PRE-CALCULUS
460 1 Credit Grades 11-12

This course will explore in-depth the topics required for a successful transition to Calculus. Critical thinking is developed through a strong emphasis of theory, graphing, applications, and creative problem solving. Topics include the treatment of real and complex number systems, advanced methods in problem-solving and graphical analysis, polynomials, exponential trigonometric, and logarithmic functions and limits. The graphing calculator is recommended to enhance the understanding of the mathematical concepts being studied.
PRE: Algebra II

STEM ALGEBRA II
439 1 Credit Grade 10
This course is for students who are enrolled in the STEM program and have completed Algebra I. This is a rigorous course, which incorporates topics in a hands-on, real-world discovery approach. The Algebra II STEM course exposes students to the ideas and applications of mathematical modeling, completes acquisition of basic skills in algebraic manipulation, and their graphs are studied. Students work with equations and inequalities, radical and absolute expressions, linear relations and functions, systems of equations and inequalities, coordinate geometry, matrix algebra, sequences and series, quadratic functions, polynomial functions, rational expressions, and conic sections. Students in the STEM course undertake advanced study in functions. Applications are more complex, and the material is explored in greater depth. Thorough mastery and understanding of techniques and concepts, as well as greater facility in using symbolic language, is expected. The use of a TI-84 graphing calculator will be an integral part of the course. PRE: Algebra I, STEM

STEM PRE-CALCULUS
464 1 Credit Grade 11

This course is for students who have completed STEM Algebra II. This is a rigorous course that will explore in-depth topics required for a successful transition to Calculus. Critical thinking is developed through a strong emphasis of theory, graphing, applications, and creative problem solving. Topics include the treatment of real and complex number systems, advanced methods in problem-solving and graphical analysis, polynomials, exponential, and logarithmic functions and limits. The graphing calculator is recommended to enhance the understanding of the mathematical concepts being studied.
PRE: STEM Alg. II

PHYSICAL EDUCATION and HEALTH EDUCATION

PHYSICAL EDUCATION
901 1/2 Credit Grade 9

The physical education component is designed to provide students with a selection of appropriate individual and team activities. Primary emphasis is placed on skill development and physical fitness.

HEALTH EDUCATION
902 1/2 Credit Grade 9

The health education course will include an in-depth discussion and study concerning current health problems. The course content will include nutrition, family life, drug, and alcohol abuse, first aid, CPR, and communicable and other diseases.

CONDITIONING I

920 1 Credit Grades 10-12

This course offers weight training with a major emphasis on aerobic exercise, which includes jogging, running, dance, air bike training, and various other activities. The anatomy and kinesiology of exercise will be studied. During the course students will measure various improvements in strength, speed, cardiovascular fitness, and body composition. PRE: PE/Health

CONDITIONING II

929 1 Credit Grades 11-12

This course includes a classroom component that covers current theories of fitness and wellness. Maintaining a healthy diet and weight are examined. Students apply the information learned through regular implementation of a personal fitness plan. Students have access to the weight room for aerobic, flexibility, and muscle strengthening activities.
PRE: Conditioning I RC

LIFETIME/TEAM/WELLNESS

910 1 Credit Grades 10-12

Students participate in aerobic activities and lifetime sports. Each student will assess his/her level of fitness and chart improvement throughout the course. The importance of a high level of wellness and how it will improve performance in lifetime activities is stressed. The activities are seasonal in nature and include archery, golf, jogging, ping-pong, tennis, and volleyball. Students learn the rules, organization, and related skills for a variety of sports such as soccer, football, basketball, volleyball, softball, and baseball. RC
Pre: PE/Health

SCIENCE

AP BIOLOGY

328 1 credit Grades 11-12

The AP Biology course aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and an appreciation of science as a process. The primary emphasis of the course is on developing an understanding of concepts rather than on memorizing terms and technical details. Essential to this conceptual understanding are the following: a grasp of science as a process rather than as an accumulation of facts; personal experience in scientific inquiry; recognition of unifying themes that integrate the major topics of biology; and application of biological knowledge and critical thinking to environmental and social concerns. Note: Animals may be dissected in this course. Alternatives to dissection are available. Students enrolled in an AP course must take The College Board exam at the conclusion of this course. Approximate cost of the AP Exam is $94.00 (subject to change). Financial assistance is available for qualified students. Please see your counselor with questions or concerns.

PRE: Biology  $

AP CHEMISTRY

3003 1 Credit Grade 11-12

The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. Approximate cost of the AP Exam is $94.00 (subject to change). Financial assistance is available for qualified students. Please see your counselor with questions or concerns.

PRE: Chemistry, and Algebra 2  $

AP ENVIRONMENTAL SCIENCE

3003 1 Credit Grade 11-12

This course stresses environmental science principles and analysis. It is oriented toward laboratory investigations field studies, and student research projects with extensive reading and

writing outside of class. Students enrolled in an AP course must take The College Board exam at the conclusion of this course. Approximate cost of the AP Exam is $94.00 (subject to change). Financial assistance is available for qualified students. Please see your counselor with questions or concerns.

PRE: Biology, Chemistry  $

ASTRONOMY

327 1 Credit Grades 11-12

This course includes detailed study of the composition and movements of celestial bodies. Constellation identification makes up this course. Visual understanding and interpretation of stellar objects is also emphasized. The realistic environment of the planetarium helps to reinforce the concepts taught. REC: Geometry.

BIOLOGY

310 1 Credit Grades 9

Biology is a required course for graduation. Topics include cell biology, taxonomy, classical and molecular genetics, eco-systems, and biomolecules. Laboratory work is an integral part of this course.

CHEMISTRY

321 1 Credit Grades 10-12

This course covers the following topics: chemical nomenclature, atomic structure, molecular theory, thermodynamics, chemical calculations, families of elements, solutions, acid and base theory, and impact of chemistry on society. An emphasis is placed on laboratory investigations. PRE: Completion of or concurrent with Algebra 2

ENVIRONMENTAL EARTH SCIENCE

3004 1 Credit Grade 11

This course incorporates aspects of earth science, physical science, biology, and chemistry as well as their significance to the environment. A strong emphasis is placed on the role of human beings in our environment and what they can do to preserve and protect it. Topics include a study of the principles of ecology, population growth, feeding the world, the wise use of our natural resources, pollution, toxic wastes, and maintaining and protecting our environment. Hands-on activities will be an integral part of this course along with other skill activities including, but not limited to, cooperative learning projects, research projects, and lab reports. PRE: Non MISA Passing Score

PHYSICAL SCIENCE

305 1 Credit Grades 10

This course is designed to expose students to the everyday application of physics and chemistry principles. Topics deal with matter and its interactions, motion, stability, energy, and waves. This is a hands-on, lab-oriented, course that investigates the application of physics and chemistry in technologies for information transfer.

FORENSIC SCIENCE

334 1 Credit Grades 11-12

This course offers students a chance to gain and apply knowledge from the areas of biology, chemistry, earth science, archaeology, anthropology, law, medicine, professional/technical writing. This course will evaluate students using a series of inquiry labs, discussion of case studies, field trips and guest speakers, internet research and practical lab exams that will allow students to strengthen skills in observation, interpretation, reasoning, and formal presentation. PRE: Biology and Chemistry, or concurrent enrollment.

HUMAN ANATOMY AND PHYSIOLOGY

330 1 Credit Grades 11-12

This course builds on the foundations of Biology and is designed to help students understand the anatomic and physiological basis of life. The course covers cytology, histology and the human body systems. Students will engage in laboratory experiences that involve dissections, models, and technological resources to understand the

interdependence of structure and function in biological systems. Note: Animals may be dissected in this course. Alternatives to dissection are available. PRE: Biology , Concurrent or enrollment completion of Chemistry.

PHYSICS

325 1 Credit Grades 12

Students are provided with a balance of conceptual development and quantitative application covering mechanics, properties of matter, waves, electricity, magnetism, and atomic theory as it relates to the real world. Focused lab activities and problem solving situations are an integral part of this course. PRE: Completion of Pre Calculus.

STEM BIOLOGY

309 1 Credit Grade 9

STEM Biology is intended for students enrolled in the STEM program of study. This course is designed to provide the rigor of a Pre-AP course, which requires a high level of technical reading. Biology is a required course for graduation. Topics include cell biology, taxonomy, classical and molecular genetics, eco-systems, and biomolecules. Laboratory work is an integral part of this course. Note: Animals may be dissected in this course. Alternatives to dissection are available. 

STEM CHEMISTRY

318 1 Credit Grade 10

STEM Chemistry is intended for students enrolled in the STEM program of study. This course is designed to provide the rigor of a Pre-AP course that requires a high level of technical reading. Major topics include: chemical nomenclature, atomic structure, molecular theory, thermodynamics, chemical calculations, families of elements, solutions, acid and base theory, and impact of chemistry on society. An emphasis is placed on laboratory investigations. PRE: Completion of or concurrent enrollment in Algebra II

AGRICULTURE SCIENCE: NATURAL RESOURCES AND ECOLOGY (ELECTIVE)

897 1 credit Grade 11-12

The CASE Natural Resources and Ecology course is intended to serve as a foundation course within the CASE sequence. The course is structured to enable all students to have a variety of experiences that will provide an overview of the field of natural resources and ecology. Students will work to explore hands-on projects and activities while focusing on the characteristics of natural resources and ecology by working on major projects and problems similar to those that biologists, ecologists, natural conservationists as well as other specialists face in their respective careers Study of the natural world including biomes, land, air, water, energy, use and care as well as a focus on issues surrounding man's interaction with the Earth will be covered.

STEM PHYSICS

317 1 Credit Grade 12

This is a rigorous course. Students are provided with a balance of conceptual development and quantitative application covering mechanics, properties of matter, waves, electricity, magnetism, and atomic theory as it relates to the real world. Focused lab activities and problem solving situations are an integral part of this course. PRE: Completion of Pre Calculus. 

BUSINESS EDUCATION

FOUNDATIONS OF BUSINESS

709 1 Credit Grades 10-12

Foundations of Business provides students with the necessary knowledge to demonstrate and apply various theories of business. Students learn about the four types of businesses and their impact on the economy and international markets, and will understand various laws, theories, and principles of business. Students learn about management and leadership styles, and will learn workplace readiness skills, including teamwork, problem

solving, and oral and written communication skills. The value of practicing effective time management and setting priorities will also be emphasized.

SOCIAL STUDIES

ANCIENT AND MEDIEVAL HISTORY

231 1 Credit Grades 11-12

This course explores world history from the beginning of mankind through the late Medieval and Renaissance period. The early civilizations of Egypt, Mesopotamia, India, and China are studied with an emphasis placed on the Greek and Roman periods. The influence of these classical societies on the thoughts and institutions of modern man are explored. A detailed investigation into the period of the Middle Ages, with a look at barbarian tribes, the Black Death, the Crusades, and the Hundred Years War, as well as the rise of nation-states, knights and chivalry, is followed by man's transition into the Renaissance and the beginning of the modern age.

AP PSYCHOLOGY

235 1 credit Grades 11-12

The purpose of the AP course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. Students enrolled in an AP course must take The College Board exam at the conclusion of this course. Approximate cost of the AP Exam is $94.00. Financial assistance is available for qualified students. Please see your counselor with questions or concerns.

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AP U.S. HISTORY

230 1 credit Grades 11-12

The AP program in United States history is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials- their relevance to a given interpretive problem, their reliability, and their importance- and to weigh the evidence and interpretations presented in historical scholarship. An AP United States History course should develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format. Students enrolled in an AP course must take the College Board exam at the conclusion of this course. Approximate cost of the AP Exam is $94.00 (subject to change). Financial assistance is available for qualified students. Please see your counselor with questions or concerns.  $

AP WORLD HISTORY

213 1 credit Grade 11-12

This course develops greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. The course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage. Periodization, explicitly discussed, forms an organizing principle for dealing with change and continuity throughout the course. Students enrolled in an AP course must take The College Board exam at the conclusion of this course. Approximate cost of the AP Exam is $94.00 (subject to change). Financial assistance is

available for qualified students. Please see your counselor with questions or concerns.

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PERSONAL FINANCE

708 1 Credit Grades 10-12

This course improves student understanding of financial products, services, and concepts. It empowers students to make informed choices, avoid financial pitfalls, and know where to go for assistance to improve their long-term financial wellbeing. Students learn ways to maximize their earning potential, develop strategies for managing their resources, explore skills for the wise use of credit, and gain knowledge about different ways of investing and managing money. The course will stress the importance of saving for retirement. In addition, students will learn about risk management and laws that protect them as consumers.

GOVERNMENT

200 1 Credit Grade 10

This course provides students with the understanding necessary for active citizenship in a participatory democracy. Students are introduced to the historical foundations of the United States government, its institutions, functions, responsibilities, and impact on citizens. Students also understand the role and responsibilities of citizenship toward ensuring the continuation of the American way of life. In addition students are introduced to the concept of world interdependence and the influence of our nation in world affairs. This course prepares student for success on the Maryland Assessment test. HSA

HONORS GOVERNMENT

202 1 Credit Grade 10

This course includes all the skills and understandings included in government; however, students are expected to work with a higher degree of independence. Assignments and projects require students to conduct research outside of the classroom. Supplemental readings are also required. The purchase of supplemental materials is optional. Class reading and writing assignments with follow-up requirements are expected. All students must complete a written research project. This course prepares student for success on the Maryland Assessment test.

HSA  PRE: B Average in US History

HONORS U.S. HISTORY

223 1 Credit Grade 9

U.S. History offers a concentrated study of our nation's history from the Reconstruction period to the present day. Students gain an understanding of the political, cultural, social, economic, and diplomatic history of our nation. The culminating grade for this course will be comprised of a culminating project and final exam.

 PRE: B average in Grade 8 Social Studies

PSYCHOLOGY

233 1 Credit Grades 10-12

This course presents a balanced approach to psychology as a science and as a life adjustment tool. The major topics covered are learning, personality, memory, heredity and environment, biological foundations of behavior, psychological disorders, consciousness, social behavior, sensation, and perception.

U.S. HISTORY

220 1 Credit Grade 9

This course offers a concentrated study of our nation's history from the Reconstruction period to the present day. Students gain an understanding of political, cultural, social, economic, and diplomatic history of our nation. The final grade for this course will be comprised of a culminating project and final exam.

WORLD HISTORY

210 1 Credit Grade 11

World History is designed to explore the creation and growth of civilization and culture in both western and eastern societies from the end of the

Middle Ages to the present day. The focus of the course is on how events shape politics, culture, and the economy. Students will further develop their thinking, reading, and writing skills as they analyze the events that have shaped the world in which we live.

TECHNOLOGY EDUCATION

FOUNDATIONS OF TECHNOLOGY

874 1 Credit Grade 9-10

This is required course for graduation. Students develop the characteristics of technologically literate citizens. The course employs teaching/learning strategies that enable students to build their own understanding of ideas. It is designed to engage students in exploring and deepening their understanding of big ideas regarding technology and makes use of a variety of assessment instruments to reveal the extent of understanding.

CADD TECHNOLOGY I

875 1 Credit Grades 10-12

Design and CADD Technology I teaches students to apply CADD skills to architecture and/or engineering. Students work on individual and group projects. The course does not require previous knowledge of drafting or computers. PRE: Foundations of Technology Education

CADD TECHNOLOGY II

876 1 Credit Grades 10-12

Design and CADD Technology II will work with more complex CADD skills and requires students to apply them to solving difficult problems. Students will solve problems, both individuals and in group settings. Students use advanced CADD skills in wire frame and solid modeling. PRE: CADD Technology 1

PRE-INTRODUCTION TO ENGINEERING DESIGN (IED)

881 1 Credit Grades 9-10

This course develops student problem solving skills, with emphasis placed on the development of three-dimensional solid models. Students sketch simple geometric shapes and use a solid modeling computer software package to design various items. They will learn a problem solving design process and how it is used in industry to manufacture a product. The Computer Aided Engineering System (CAD) is used to analyze and evaluate the product design. State of the art techniques and equipment used by engineers throughout the U.S. will be presented. PRE: Completion of or concurrent with Algebra I.

WORLD LANGUAGE

AP SPANISH LANGUAGE

570 1 credit Grades 11-12

Emphasis in this course is mastery of the four language skills: listening, speaking, reading, and writing in Spanish. The course is taught exclusively in Spanish. This course has the following objectives: 1) the ability to comprehend formal and informal spoken Spanish; 2) the acquisition of vocabulary and a grasp of structure to allow the easy, accurate reading of newspaper and magazine articles, as well as modern literature in Spanish; 3) the ability to compose expository passages; and 4) the ability to express ideas orally with accuracy and fluency. Students enrolled in an AP course must take The College Board exam at the conclusion of this course. Approximate cost of the AP Exam is $94.00 (subject to change). Financial assistance is available for qualified students. Please see your counselor with questions or concerns. PRE: Spanish IV

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SPANISH I

540 1 Credit Grades 9

This course is open to all students who wish to begin the Spanish sequence. Spanish at this level emphasizes listening, speaking, and reading skills that are developed through intensive practice. Basic grammar includes present tense of regular and irregular verbs, adjectives, articles, pronouns, reflexive verbs and preterite of regular verbs. In addition, reality-based readings and activities are

included in order to enhance the learning of the products, practices, and perspectives of Spanish-speaking countries.

SPANISH II

550 1 Credit Grades 9-11

Spanish at the intermediate level stresses listening, speaking, and reading with some emphasis on writing skills in the form of semi-structured paragraphs. Study of grammar continues with present progressive and past tense verb forms, formal and informal commands, and object pronouns. As with Spanish I, reality-based readings and activities are also included in order to enhance the learning of the products, practices, and perspectives of Spanish-speaking countries. PRE: Spanish I

SPANISH III

560 1 Credit Grades 10-12

Spanish at this level places more emphasis on reading and writing skills, as well as conversational skills. Included in the grammatical study are the future, conditional, present perfect, pluperfect verb tenses, comparisons of the preterite and imperfect tenses and present subjunctive mood. Classes are largely conducted in Spanish and emphasis is placed upon Hispanic culture and literature. PRE: Spanish II

SPANISH IV

565 1 Credit Grades 11-12

This course is a natural extension and compilation of the first three years of Spanish. In this course all of the grammatical syntax, vocabulary, comprehension of oral and written Spanish and ability to converse in Spanish learned in the first three years of Spanish will be integrated and enhanced. The class will be conducted in Spanish. English clarification will be used sparingly. Students will be expected to understand, write, and converse in Spanish. A review and understanding of grammar will be presented through more sophisticated literature and poetry selections. Students are expected to have an elevated grasp of the more complicated grammatical structures presented in the reading selections. Students will also be expected to compose sophisticated and comprehensive themes in Spanish. Writing and speaking skills will be an area of focus in this course. PRE: Spanish III

CHESAPEAKE COLLEGE DUAL CREDIT COURSES

Chesapeake College course will be offered at Kent County High School pending available instructors and sufficient enrollment. Consult with your guidance counselor. Courses offered are open also to Kent County residents. These courses are Chesapeake College Courses and KCHS has no authority over grades or instructors. Student progress will not be available on PowerSchool. Any questions regarding registration, payment, or grades must be directed to Chesapeake College at 410-822-5846. A portion of the cost of the course will be shared by Kent County Public Schools. Students must pass all prerequisite college placement tests in order to enroll in the course. Students must also sign a release form allowing KCPS staff to have access to attendance and grade information.

Successful completion of these courses will result in both high school and college credit and will be listed on the transcript and included in the calculated GPA. Grades will not be visible in PowerSchool until Completion.

VIRTUAL LEARNING COURSE

The Kent County Public School System will assume the cost for these courses. County sponsored seats are limited. All online courses will be taught at KCHS. The various online course providers will provide grades to the school and student. Credit for graduation will be earned through these courses and will appear on the final report card and high school transcript. Final grades will not be available on PowerSchool until completion. Consult with your school counselor. For more information go to: http://mdk12online.org

Glossary of Terms

Advanced Placement (AP) Course – Courses established by College Board that are taught at the level of a college course. Students enrolled in an AP course must take The College Board exam at the conclusion of this course. Approximate cost of the AP Exam is $94.00 (subject to change). Financial assistance is available for qualified students. Please see your counselor with questions or concerns.

Career and Technology Completer Program – A program of study that focuses on a specific Career and Technical field. The programs have been approved by the Maryland State Department of Education and have additional graduation requirements. Kent County High School offers ten Career and Technology Completer Programs. They are listed in the Student Education Planning Guide.

Dual Completer- A student who graduates having met the University of Maryland admissions requirements and career and technology completer program.

Dual Enrollment – A program that allows eligible students to earn college credit while still attending high school. College classes receive high school and college credit. Students attending Chesapeake College must be 16 years old and carry an unweighted GPA of 2.5. Students attending Washington College's More Able courses must be seniors and hold an unweighted GPA of 3.5.

Elective – An elective is a course needed as a graduation requirement. However , Students will need electives in order to gain at least 23 credits for graduation . Electives are not considered a core academic credit .

Grade Point Average (GPA) - The numerical value assigned to a student's scholastic average, computed by dividing the total quality points by the total credit hours attempted.

Honors - The Honors program is designed for students who are self-initiating and highly motivated. It builds upon the successes of earlier experiences and stimulates bright and creative minds to explore their potential. These courses move at a faster pace in order to meet the needs of students whose goals are to go beyond the MD State Core Learning Goals of the discipline through supplemental readings, writings, and activities that develop deeper understanding.

Student Program of Study – A resource to be used by parents, students, and staff in scheduling. The Student Prgram of study Guide contains a summary of the Graduation Requirements for students as well as brief descriptions of all courses taught at Kent County High School.

Work Based Learning :Internship- The purpose of this is to allow students to enrich student knowledge of industry beyond the classroom. Students will be given the chance to experience real life business situations. This experience can be invaluable to the student, employer, and the community. These Course are pass/fail .These placements must be approved by appropriate staff at Kent County High School.

"Growing a Community of Leaders"
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