

Essex High School Course Handbook

The EHS School Counseling Program serves students in grades eight through twelve. Essex High School has two full-time professional school counselors. Professional School Counselors assist students in the areas of academics, social, and career readiness.

Graduation Requirements and Diploma Programs

All students are required to complete the requirements for the Standard Diploma or the Advanced Studies Diploma unless they have an Individualized Education Plan. Students must earn verified credits by passing state level assessments.

Verified Credit

Students gain verified credits by earning a score of 400 or higher on a Virginia Board of Education Standards of Learning (SOL) test for a high school subject in which they have earned a standard credit. The end of course (EOC) SOL tests are: English 11 Reading, Modern World History, World Geography, US History, Algebra I, Geometry, Algebra II, Earth Science, Biology, and Chemistry. Students will be assessed in Writing through a Performance Based Assessment.

Promotion Standards 9-12

Grade 8:

Students must pass 6 of 8 courses to include Math and English

Grade 9:

The student must pass 4 out of 6 classes. English/Language Arts and mathematics must be two of the classes passed.

Grade 10:

Students must have acquired at least 5 high school credits, three of the credits must be core classes including English 9.

Grade 11:

Students must have acquired at least 10 high school credits, six of the credits must be core classes including English 10.

Grade 12:

Students must have acquired at least 15 high school credits, nine of the credits must be core classes including English 11. Seniors must be enrolled in all of the courses needed to earn a diploma at the close of the regular school year.

Grading Periods:

Essex County Public Schools have nine-week grading periods. There will be four nine-week grading periods during the school year, two during the first semester and two during the second semester. In addition to the four report cards, parents should review the interim reports that will be issued for every student at the midpoint of the grading period. Parents are encouraged to participate in all scheduled parent/teacher conferences, and to make appointments for other conferences as needed. Parent/teacher conferences are held at the end of the first and second grading periods.

Calculation of Grade Point Averages:

A = 90 - 100 B = 80 - 89 C = 70 - 79 D = 60 - 69 F = 59 and below

Students are awarded points for the grades they earn at the close of each school year according to the following scale: A=4, B=3, C=2, D=1 and F=0. Advanced Placement (test required) and college level dual enrollment classes are weighted one additional point: A=5, B=4, C=3, D=2. Points earned are totaled and then divided by the number of classes attempted. The resulting figure, rounded to the hundredth will be somewhat equivalent to an overall letter grade called the GPA.

The numerical GPAs are then placed in order from highest to lowest to determine ranking. Official calculations are done at the close of the junior year, mid-year senior year, and after graduation.

Diploma Seals

Students meeting specific requirements for graduation and demonstrating exemplary performance may receive diploma seals for recognition. VDOE makes available to local school divisions the following seals:

- **Governor's Seal** - Awarded to students who complete the requirements for an Advanced Studies Diploma with an average grade of "B" or better, and successfully complete college-level coursework that will earn the student at least nine transferable college credits in Advanced Placement (AP) or dual enrollment courses.
- **Board of Education Seal** - Awarded to students who complete the requirements for a Standard Diploma or Advanced Studies Diploma with an average grade of "A".
- **Board of Education's Career & Technical Education Seal** - Awarded to students who earn a Standard or Advanced Studies Diploma and complete a prescribed sequence of courses in a career and technical education concentration or specialization that they choose and maintain a "B" or better average in those courses OR pass an examination or an occupational competency assessment in a career and technical education concentration or specialization that confers certification or occupational competency credential from a recognized industry, trade or professional association OR acquire a professional license in that career and technical education field from the Commonwealth of Virginia. The Board of Education shall approve all professional licenses and examinations used to satisfy these requirements.
- **Board of Education's Advanced Mathematics & Technology Seal** - Awarded to students who earn either a Standard or Advanced Studies Diploma and satisfy all of the mathematics requirements for the Advanced Studies Diploma (four units of credit including Algebra II; two verified units of credit) with a "B" average or better; and either pass an examination in a career and technical education field that confers certification from a recognized industry, or trade or professional association OR acquire a professional license in a career and technical education field from the Commonwealth of Virginia OR pass an examination approved by the board that confers college-level credit in a technology or computer science area. The Board of Education shall approve all professional licenses and examinations used to satisfy these requirements.
- **Board of Education's Excellence in Civics Education Seal** - Awarded to students who meet each of the following four criteria: Satisfy the requirement to earn a Standard Diploma or an Advanced Studies Diploma and complete Virginia & United States History and Virginia & United States Government courses with a grade of "B" or higher and Complete 50 hours of voluntary participation in community service or extracurricular activities, such as volunteering for a charitable or religious organization that provides services to the poor, sick or less fortunate; participating in Boy Scouts, Girl Scouts or similar youth organizations; participating in Junior Reserve Officer Training Corps (JROTC); participating in political campaigns, government internships, Boys State, Girls State or Model General Assembly; and participating in school-sponsored extracurricular activities that have a civics focus. Any student who enlists in the United States military prior to graduation will be deemed to have met this community service requirement. Have good attendance and no disciplinary infractions as determined by local school board policies.

- **The Board of Education’s Seal of Bi-literacy** - The Board of Education’s Seal of Bi-literacy will be awarded to students who earn either a Board of Education-approved diploma and (i) pass all required End-of-Course Assessments in English reading and writing at the proficient or higher level; and (ii) be proficient at the intermediate-mid level or higher in one or more languages other than English, as demonstrated through an assessment from a list to be approved by the Superintendent of Public Instruction. For purposes of this article, "foreign language" means a language other than English, and includes American Sign Language
- **The Board of Education Excellence in Science and the Environment (class 18-19)** - Minimum of three different first-level board-approved laboratory science courses and at least one rigorous advanced-level or postsecondary-level laboratory science course, each with a grade of “B” or higher; Laboratory or field-science research and present that research in a formal, juried setting; and a minimum of 50 hours of voluntary participation in community service or extracurricular activities that involve the application of science such as environmental monitoring, protection, management, or restoration.

Diplomas and Graduation Requirements

Students will achieve an Applied Studies, Standard Diploma, or Advanced Diploma.

- The purpose of the Applied Studies framework is to provide IEP teams with guidance when developing IEPs as well as provide students with the skills they will need when they exit high school. The curriculum framework is designed to address these specific skills while allowing flexibility to teachers to allow them to teach to student interests and skills. The Applied Studies Diploma is not intended to address every skill a student may need, nor is it a replacement for state assessments such as end of course SOLs or the Virginia Alternative Assessment program.
- Training in Emergency First Aid, CPR, and Use of an AED - Requirements for the standard and advanced diplomas shall include a requirement to be trained in emergency first aid, cardiopulmonary resuscitation, and the use of automated external defibrillators, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation.
- The Profile of a Virginia Graduate describes the knowledge, skills, experiences, and attributes that students must attain to be successful in college and/or the work force and to be “life ready” in an economy and a world characterized by rapid change. The board has determined that a life-ready Virginia graduate must:
 - Achieve and apply appropriate academic and technical knowledge (content knowledge)
 - Demonstrate productive workplace skills, qualities, and behaviors (workplace skills)
 - Build connections and value interactions with others as a responsible and responsive citizen (community engagement and civic responsibility)
 - Align knowledge, skills and personal interests with career opportunities (career exploration)
 - The development of the Profile of a Virginia Graduate creates a framework for the Board of Education as it reviews the Commonwealth’s diploma standards to ensure that high school graduates are prepared for success life after high school. Legislation requires that diploma standards aligned with the Profile of a Virginia Graduate become effective with first-time ninth graders in the fall of the 2018-2019 school year, or the graduating class of 2022.

9th Grade Graduation Requirements - Profile of a Graduate

Standard Diploma 2018- 2019			Advanced Diploma 2018 - 2019		
Subject Area	Standard Credits	Verified Credits	Subject Area	Standard Credits	Verified Credits
English	4	2	English	4	2
Mathematics	3	1	Mathematics	4	1
Laboratory Science	3	1	Laboratory Science	4	1
History and Social	3	1	History and Social Sciences	4	1
Health and P.E.	2	0	Health and P.E.	2	0
World Language, Fine Arts or	2	0	World Language	3	0
Economics & Personal Finance	1	0	Fine Arts or C.T.E.	1	0
Electives	4	0	Economics & Personal	1	0
Student Selected Test	0	0	Electives	3	0
Total Credits	22	5	Total Credits	26	5

10th grade, 11th grade, 12th grade Graduation Requirements

DIPLOMA REQUIREMENTS

Standard Diploma			Advanced Studies Diploma		
Discipline Area	22 Standard Credits	6 Verified Credits*	Discipline Area	26 Standard Credits	9 Verified Credits*
English	4	2	English	4	2
Mathematics 2 different courses from the following: Algebra 1, Geometry, Algebra Functions and Data Analysis, Algebra 2, or other courses above the level of Algebra 2	3	1	Mathematics 3 different courses from the following: Algebra 1, Geometry, Algebra 2, or other math courses above the level of Algebra 2	4	2
Laboratory Sciences 2 different science disciplines from the following: Earth Science, Biology, Chemistry, or Physics	3	1	Laboratory Sciences 3 different science disciplines from the following: Earth Science, Biology, Chemistry, or Physics	4	2
Social Studies World History and Geography (1) U.S. and Virginia History (1) U.S. and Virginia Government (1)	3	1	Social Studies World History and Geography (2) U.S. and Virginia History (1) U.S. and Virginia Government (1)	4	2
Health and Physical Education	2		Foreign Language One language for three years or two languages for two years each	3	
Foreign Language, Fine Arts or CTE (1 credit has to be Fine Arts or CTE)	2		Health and Physical Education	2	
Economics and Personal Finance	1		Fine Arts or CTE	1	1 Other
Electives Courses to satisfy this requirement shall include at least two sequential electives	4	1 Other	Economics and Personal Finance	1	
			Electives	3	
Total Credits	22	6 verified*	Total Credits	26	9 verified*

Academic Achievement Awards:

In order to be eligible for any academic achievement awards, students must be enrolled in at least five classes. No student with an "I" is eligible for an award, including honor roll or principal's list.

- The Honor Roll and Principal's List is determined based upon nine-week grades at the end of the grading period.

The Principal's List includes all students who earn only "A's."

Honor Roll includes all students who earn "A's and B's."

Principal's List and Honor Roll are not calculated by grade point average.

- Superintendents List includes all student 's who have earned "A's for the year.
- Graduation Honors will be determined in the student's senior year and all high school level and dual enrollment grades (classes that meet the advanced diploma requirements) earned through the senior year will be taken into consideration. Only students earning an Advanced Studies Diploma are eligible for the valedictorian and salutatorian awards. Valedictorian and salutatorian honors are determined by the grade point average.

Early College Scholars Program

The Early College Scholars program allows eligible high school students to earn at least 15 hours of transferable college credit while completing the requirements for an Advanced Studies Diploma or an Advanced Technical Diploma. The result is a more productive senior year and a substantial reduction in college tuition. Students earning a college degree in seven semesters instead of eight can save an average of \$5,000 in expenses.

To qualify for the Early College Scholars program, a student must:

- Have a "B" average or better
- Pursuing an Advanced Studies Diploma or an Advanced Technical Diploma
- Take and complete college-level course work (i.e., Advanced Placement, International Baccalaureate, Cambridge, or dual enrollment) that will earn at least 15 transferable college credits (5 classes).

Early College Scholars are supported by Virtual Virginia and the Commonwealth College Course Collaborative. Virtual Virginia provides statewide access to college-level courses while the Commonwealth College Course Collaborative defines the subjects high school students can complete and receive college degree credit from participating public and private colleges and universities.

Advanced Placement Program

Advanced Placement (AP) is a program comprising college-level courses and exams that give motivated students the opportunity to get ahead by earning advanced placement and/or credit for college while they are still in high school. There are many benefits for students who take AP Courses. They have the opportunity to study interesting and challenging topics, discover new interests, and get a head start on college. Upon successful completion of an AP course, students at Essex High School earn a weighted grade (A=5 points, B=4 points, etc.) and one high school credit. **Students are required to take the AP exam for that course** and, depending on scores, earn college credits. *College credits are determined by the college.*

Students that do not to take the exam will be charged a \$40 fee and forfeit the weighted course credit.

Dual Enrollment Program (DE)

All dual enrollment courses may be counted toward the 15 college credits required for a student to become an "Early College Scholar." Certain dual enrollment courses may also qualify as part of the Commonwealth College Course Collaborative. This collaborative, involving all Virginia two- and four-year colleges and universities except Virginia Military Institute, provides a set of academic courses that fully transfer as core requirements and degree credits. ***Students must pass the college placement test in order to enroll in the DE classes. Students that fail to take or pass the VPT will be withdrawn at the conclusion of the 15th day of school.*** College-level (course code of 100 or above) dual enrollment classes will have weighted grades. Essex High School students can take RCC classes not offered at the high school outside of the on-site program. Courses taken at RCC outside of the ECPS Dual Enrollment program do not count for high school graduation and are not paid for by ECPS.

Online Courses

Virtual Virginia includes the Virginia Virtual Advanced Placement School and offers online AP courses. These courses utilize video segments, audio clips, Blackboard and online discussions, as well as text lessons. All courses are taught by fully certified teachers in the subject area who are skilled at teaching in the online environment. Teachers are available via phone and email. Students must register through their school counselor no later than March 15. Students in online courses who wish to drop a course MUST withdraw within 21 calendar days from the first day of the course. The student may be assessed an administrative fee of \$75 for students who withdraw more than 21 calendar days after the start of the course.

Virtual Virginia does not have a specific grading scale; the local school will convert the numeric grade awarded to a letter grade based on the local grading scale. Honors points, weighting, and other special considerations are made at the discretion of the local school and should be determined prior to the student's enrollment. Online AP students should be given the same consideration as students taking AP courses at their local schools. Exams will be determined by the administrators of Virtual Virginia; which may differ from the ECPS exam policies.

Essex High School contracts with other online learning programs as an option for students whose schedule selections pose serious conflicts or have exhausted elective opportunities. Students must be approved by the Principal prior to enrollment in an online course. Students will work independently during assigned class times to complete online curricula. Students may have access to the course outside of school hours. Course availability is dependent upon VDOE approval by course provider. Exams will be determined by the administrators of the online program; which may differ from the ECPS exam policies. Students will complete an online agreement that states the parent/guardian is responsible to reimburse ECPS in the event the student does not successfully complete or pass the course.

Chesapeake Bay Governor's School

Focus: Marine and Environmental Studies

Mission: The Chesapeake Bay Governor's School for Marine and Environmental Science provides a community of learners with the opportunity to explore connections among the environment, math, science, and technology and develops leaders who possess the research and technical skills, global perspective, and vision needed to address the challenges of a rapidly changing society.

- Courses:** Biology, Chemistry, Physics, College Algebra, Pre-Calculus, Calculus, Statistics, and Foundations in Science & Environmental Science I & II. All courses meet and/or exceed the Virginia Standards of Learning (SOL) requirements.
- Sites:** Rappahannock Community College, Warsaw Campus
Rappahannock Community College, Glenss Campus
Bowling Green campus in Caroline County
- Admissions:** Students who are eligible to attend Chesapeake Bay Governor's School are high ability 10th, 11th and 12th graders from the participating school divisions. Depending on the year of application, students need to have successfully completed Algebra I, Geometry, and one or two high school credits in science. The applying students should have a "B" average for 8th and 9th grade years. They should also have scored 85% or higher composite/total score on a standardized achievement and/or ability test **OR** 85% or higher on a math or science quantitative subtest.

Admission is competitive and is based on previous math and science courses, teacher recommendations, standardized achievement testing, science/math activities, and honors.

To apply, rising sophomores should see their counselor and/or the Gifted Education Coordinator and request an application. Applications are available at the start of the second semester and the selection process occurs in early spring.

Guidelines for Course Registration

Students should make their decisions carefully and be certain that they are fulfilling the requirements for the diploma program they have chosen. If students have not committed to a diploma program, courses from both programs should be taken.

Minimum Number of Classes- 8th through 11th graders must take a minimum number of courses depending on their diploma status and needs of classes. Seniors must take classes required for graduation and may qualify for work release upon permission from the principal.

Add/Drop Period - Students will have an opportunity in the 3rd quarter to add/drop courses for the next school year. After the add/drop period closes, there are no changes in course requests unless there is a required level change or an error in sequencing.

Electives- All elective course offerings are contingent upon enrollment and funding availability. Students are encouraged to select electives that will prepare them for their future education and/or career plans.

Course Requests- School Counselors will work with students to determine the students' courses for the upcoming school year. The course request form will be sent home with the 3rd quarter report card and must be returned to School Counseling within one week for any schedule changes. Changes will not be honored after this point unless a level change is required.

Add/Drop Guidelines- The school adheres to strict add/drop guidelines. **With administration and teacher permission**, students may add or drop a class during the first six days of school for level changes **ONLY**. No student will be withdrawn from a course after the 1st 9 weeks.

Credit Recovery/Correspondence/Off Campus Courses- Students *must* request from the principal, in writing, permission to take correspondence, online, and off campus classes from an accredited institution.

VHSL Academic Eligibility- All students participating in Virginia High School League athletics and other extra-curricular activities must be enrolled in five or more classes and have passed at least five classes during the last semester.

ART

<p><u>Art I</u> (9120) This class is designed to teach students how to communicate through non-verbal means. Art I covers such topics as art history, the study of the elements and principles of design. Students will work with a variety of materials and subject matter. Students of all academic levels may succeed and do well in this class if they have the desire and determination to do so.</p>	<p><u>Art Studies</u> (9197) Art studies helps develop the analytical and conceptual skills necessary for students to explore visual culture in the historical, social, cultural and political contexts, over a range of periods and styles.</p>
<p><u>Art II</u> (9130) <i>Prerequisite: Art I and Teacher Recommendation</i> This class continues the study of the elements and principles of design. In this course students will use more advanced materials and techniques for creating art, as well as a more in-depth look at Art History.</p>	<p><u>Craft Design</u> (9160) Craft Design is a hands-on course designed to give student opportunities to develop skills in a variety of craft techniques. The course delves into the history of each craft and its application to today’s society. There are numerous connections to the core academic areas Examples of the skills that may be developed include macramé, decoupage, charred designs, basketry, weaving, quilting, knitting, crocheting, paper craft, bookbinding, and stamping.</p>
<p><u>Advanced Art III</u> (9140) <i>Prerequisite: Art II and Teacher Recommendation</i> Art III students will further develop their knowledge of the elements and principles of art. Students will continue with art history and appreciation. This class also works with life drawing skills of the human form. More emphasis is placed on sculpture. A more personal development and individual style of expression is developed.</p>	<p><u>Photography</u> (9190) <i>Prerequisite: Art 1 and/or Teacher Recommendation</i> This introductory course deals with traditional black and white photography as well as digital photography and teaches basic camera handling. Students learn how to control light to produce an aesthetically pleasing image. Composition and the elements and principles of art are introduced. In addition, digital photography, photograms, special effects, and the history of photography may be addressed.</p>
<p><u>Advanced Art IV</u> (9145) <i>Prerequisite Art III and Teacher Recommendation</i> These sequential classes build on successful completion of earlier art classes. There is an emphasis on visual problem solving, developing a personal style of expression and individual projects. Students are expected to exercise an aesthetic judgment and engage in critiques of their own artwork, as well as that of others. Students will develop and maintain a portfolio.</p>	<p><u>Photography II</u> (9191) <i>Prerequisite: Photography I and Teacher Recommendation</i> This course deals with the advanced development of traditional black and white photography as well as digital photography Students learn how to control light to produce an aesthetically pleasing image. Composition and the elements and principles of art are expanded. In addition, digital photography, photograms, special effects, and the history of photography will be part of unit plans.</p>

<p>2D Art (9195)</p> <p>Students will have the opportunity to increase their understanding and appreciation of art through responding to and making two-dimensional visual images. They will examine, analyze, interpret, and judge traditional and contemporary works of art and artifacts to discover how artists have used the following features of art: elements, principles, subject matter, media, techniques, styles, and products/function. Individual and group experiences will promote problem solving, creative thinking, and formal expression.</p>	<p>Graphics Art Design I (9153)</p> <p>Introduces students to the principles of graphic design and visual communication. Emphasis will be placed on the design-process using methods, strategies, and techniques to create original student artwork. Students will apply their knowledge of the elements and principles of design in order to strengthen their ability to visually communicate ideas. We will explore a range of design techniques using various art materials and software programs such as Adobe Photoshop and Illustrator. Students will analyze, critique artworks and learn about the origins of graphic design in the history of art. Students will be exposed to a variety of disciplines within the Graphic Design field, which include but are not limited to logo design, poster design, typography, packaging design, and illustration.</p>
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MUSIC

<p>Beginning Band (9232) <i>Graded performances required.</i></p> <p>Students will begin to use more articulations and bowings, perform scales and music in more difficult key signatures, demonstrate shifting and vibrato, and perform music at an intermediate level of difficulty (VBODA Solo Repertoire, Level 2-4). Ensemble skills will become more developed as students participate in band and orchestral settings. Students will describe concepts common to music and other disciplines, and will be involved in discussing various cultures, styles, composers, and historical periods.</p>	<p>Guitar I (9245) <i>Graded performances required.</i></p> <p>Students enrolled in Guitar I class will learn a variety of guitar skills. These skills include rhythm guitar, melody guitar, bass guitar, guitar ensemble skills, arpeggios, scales, bare chords, power chords, scales and more. No prior knowledge of the Guitar is needed for this class, just the desire to learn about the guitar.</p>
<p>Intermediate Band - Concert Band (9233) <i>Teacher Recommendation</i> <i>Graded performances required.</i></p> <p>Students will begin to use more articulations and bowings, perform scales and music in more difficult key signatures, demonstrate shifting and vibrato, and perform music at an intermediate level of difficulty (VBODA Solo Repertoire, Level 2-4). Ensemble skills will become more developed as students participate in band and orchestral settings.</p>	<p>Guitar II (9247) <i>Prerequisite: Teacher Recommendation</i> <i>Graded performances required.</i></p> <p>Students enrolled in Guitar II will learn a variety of guitar skills. These skills include Roman numeral chords, scale skills, first position notation, right hand and left hand classical technique, upper position playing, blues, jazz and pop studies, music theory and string bending techniques.</p>

Students will describe concepts common to music and other disciplines, and will be involved in discussing various cultures, styles, composers, and historical periods.	
<p>Advanced Band - Symphonic (9234) <i>Prerequisite: Teacher Recommendation</i> <i>Graded performances required. Marching Band required.</i> This class is open to students who demonstrate musical proficiency on a band instrument (woodwind, brass, or percussion). Required activities include winter and spring performances as well as participation in the marching band, which includes a two-week preparatory “band-camp” during the summer, after-school rehearsals, and performances at all home basketball and football games and parades. As a performance class, attendance at all of the previously mentioned events is factored in the student’s grade.</p>	<p>Music Appreciation (9222) This course introduces students to the history, theory, and genres of music. The course explores the history of music, from the surviving examples of rudimentary musical forms through to contemporary pieces from around the world. The course explores the relationship between music and social movements and reveals how the emergent global society and the prominence of the Internet are making musical forms more accessible worldwide.</p>
<p>Chorus (9260) <i>Graded performances required.</i> This class is open to students who demonstrate musical proficiency in vocal techniques. Students must have prior experience in middle and/or high school choral programs. Required activities include winter and spring performances, workshops, and festivals located both at the school and outside locations. As a performance class, attendance at all of the previously mentioned events is factored in the student’s grade.</p>	<p>Percussion Ensemble (9296) <i>Prerequisite: Teacher Recommendation</i> <i>Graded performances required.</i> The Percussion Ensemble is a small musical ensemble consisting of only percussion instruments. Students study a wide variety of music literature and perform on a wide range of percussion instruments. They increase their individual sticking technique along with learning complex rhythms and ensemble balance. It is expected that students will practice on a daily basis.</p>

ENGLISH

<p>English 9 (1132) Grade Level: 9 This class builds upon students’ prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. Grammar will include not only a review of parts of speech, but also methods of developing paragraphs and longer compositions. This class introduces and defines various genres of literature, with writing exercises linked to reading selections.</p>	<p>English 12 (1162) Grade Level: 12 Prerequisite: English 11 A survey of World literature with a focus on British literature is studied in this course. This class blends composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature, continuing to develop their language skills. Writing will focus on persuasive multi-paragraph essays, college application compositions, and resumes.</p>
<p>Advanced English 9 (1131) Grade Level: 9 <i>Prerequisite: Teacher recommendation required</i></p>	<p>Advanced Placement Literature & Composition 12 (1195) Grade Level: 12</p>

<p>This class builds upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. Grammar will include not only a review of parts of speech, but also methods of developing paragraphs and longer compositions. This class introduces and defines various genres of literature, with writing exercises linked to reading selections.</p>	<p><i>Prerequisite: Teacher recommendation required and AP Test required</i></p> <p>Senior AP Literature & Composition is a course designed to allow secondary students, who are capable and willing, to attempt reading and writing on works typically found in the sophomore year of the college curriculum. As a survey of World Literature, this course will include not only a study of major literary works of each historical period, but also a study of the economical, moral, social environment which produced the literature. Critical analysis of the structure and genre of literature will be accompanied by compositions of critical analysis, explication, and persuasion. Library research and extensive reading of complete works are required. This is a writing intensive course. This course will prepare students for the National AP Literature & Composition exam in May. Students are required to take the AP exam for the credit to be weighted.</p>
<p>English 10 (1142) Grade Level: 10 <i>Prerequisite: English 9</i></p> <p>This class offers a balanced focus on composition and literature. Students learn about the alternate aims and audiences of written compositions by writing persuasive, expository, critical, and creative multi-paragraph essays. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message.</p>	<p>DE English Composition II (1178) Grade Level: 12 <i>Prerequisite: DE English Composition I (ENG 111 and 112)</i></p> <p>Helps students refine skills in writing non-fiction prose. Guides development of individual voice and style. Introduces procedures for publication. During the second semester students will focus on major works of world literature. Involves critical reading and writing.</p>
<p>Advanced English 10 (1141) Grade Level: 10 <i>Prerequisite: English 9 and Teacher recommendation required</i></p> <p>World literature is studied extensively in this course. This class offers a balanced focus on composition and literature. Students learn about the alternate aims and audiences of written compositions by writing persuasive, expository, critical, and creative multi-paragraph essays. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message.</p>	<p>Creative Writing (1171) Grade Levels: 11-12 <i>Prerequisite: English 10</i></p> <p>This course is a workshop where students write and share their work, as well as a place to receive and give criticism to improve their technique and individual style in poetry, short story, drama, essays and other forms of writing.</p>

<p>English 11 (1152) Grade Level: 11 <i>Prerequisite: English 10</i> <i>Reading SOL Test Required</i> American literature is studied extensively in this course. This class continues to develop student’s writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and use techniques for writing research papers. Students will study grammar to improve writing skills. Students continue to read works of literature, which often form the backbone of writing assignments Compositions (in class writings), are required with an emphasis on persuasion.</p>	<p>Literature of a Genre – Drama (1164) Grade Levels: 9-12 <i>Prerequisite: B average in English, Teacher Recommendation</i> Through various modes of expression and performance, student will investigate dramatic literature, theatrical styles, and historical periods. Students will study and respond to a variety of theatre experiences that will refine their communicative, collaborative, analytical, interpretive, and problem-solving skills. Student will expand their artistic abilities and appreciation of the theatrical arts.</p>
<p>DE English Composition I (1177) Grade Level: 11 <i>Prerequisite: RCC Placement Test required with placement into ENF 1 or ENF 2.</i> Introduces students to critical thinking and the fundamentals of academic writing. Through the writing process, students refine topics: develop and support ideas; investigate, evaluate, and incorporate appropriate resources; edit for effective style and usage; and determine appropriate approaches for a variety of contexts, audiences, and purposes. Writing activities will include exposition and argumentation with at least one researched essay.</p>	<p>Journalism (1200) Grade Levels: 10-12 <i>Prerequisite: Teacher Recommendation</i> Journalism I is a survey of the basic concepts of reporting and non-fiction writing. Students will encounter various article formats and work towards developing their voice using various writing styles. They will discuss journalistic ethics and think critically about bias in reporting. Much of the course will focus on the students developing and improving their writing in a variety of styles and formats. Voice, tone, syntax, vocabulary</p>
<p>English 12 Capstone (1176) <i>Class of 2022</i> Virginia’s College and Career Ready English Performance Expectations grade 12 capstone course contains high-interest contextualized content designed to give certain students an additional boost for competent and successful entry into college and careers. The course will add to students’ preparation for critical reading, college and workplace writing, and career-ready communications by enhancing skills in reading, the writing process, and creation of effective texts, and effective communications (speaking, listening, and collaborating)</p>	
<p>Developmental Reading I (1181) Grade 9 Developmental Reading II (1182) Grade 10 Developmental Reading III (1183) Grade 11 Developmental Reading IV (1184) Grade 12 <i>Prerequisite: Teacher Recommendation</i> Course provides additional support and remediation in Reading based on previous student strengths and weaknesses. Specific programming may be used to develop reading based skills.</p>	

WORLD LANGUAGES

<p><u>French I Online</u> (5110) Grade Levels: 9-11 Designed to introduce students to French language and culture, French I emphasizes basic grammar & syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. French culture is introduced through the art, literature, customs, and history of the French-speaking people. This class is recommended for the college-bound, as well as the career-minded student. Technology based projects are completed.</p>	<p><u>Spanish I</u> (5510) Grade levels: 9-11 This class is designed to introduce students to Spanish language and culture. The Spanish I course emphasizes grammar and syntax, simple vocabulary, and the spoken accent. Students will read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people. Importance is placed on becoming acquainted with the geography of countries where the language is spoken. In addition to daily homework and classroom assignments, students must learn how to switch a keyboard to Spanish and use technology for practice and fluency.</p>
<p><u>French II Online</u> (5120) Grade Levels: 10-12 <i>Prerequisite: French I</i> French II builds upon skills developed in French I, extending students' ability to understand and express themselves in French and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of French-speaking people to deepen their understanding of the culture(s). Several technology based projects are completed. Students have the opportunity to compete in poetry or spelling competitions.</p>	<p><u>Spanish II</u> (5520) Grade Levels: 9-12 <i>Prerequisite: Spanish I</i> This class builds upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture.</p>
<p><u>French III Online</u> (5130) Grade Levels: 10-12 <i>Prerequisite: French II</i> French III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding while listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations. Students have the opportunity to compete in poetry or spelling competitions.</p>	<p><u>Spanish III</u> (5530) Grade Levels: 10-12 <i>Prerequisite: Spanish II</i> This class focuses on having student express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations. Daily homework, projects and use of technology increase. At least two novels in</p>

Students may produce a video in French for competition.	Spanish are read. A travel journal and a biography are written in Spanish as end of the year projects.
<p><u>French IV Online</u> (5140) Grade Levels: 11-12 <i>Prerequisite: French III</i> Course offering is dependent upon student enrollment French IV courses focus on advancing students' skills and abilities to read, write, speak, and understand the French language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary. This class is recommended for students interested in developing increased proficiency in conversation and composition. Students can expect oral presentations and will complete Technology based projects. Students have the opportunity to compete in poetry or spelling competitions. Students may produce a video in French for competition.</p>	<p><u>Spanish IV</u> (5540) Grade Levels: 11-12 <i>Prerequisite: Spanish III</i> This class focuses on advancing students' skills and abilities to read, write, speak, and understand the Spanish language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary. Reading texts may include current media, essays, short stories, poems, plays and other materials, with emphasis on cultural appreciation through classic and contemporary, art, technology, and music.</p>
<p><u>Spanish Immersion</u> (5502) Grade Level: 8 Students learn to communicate in real-life contexts about topics that are meaningful to them. To develop students' communicative competence, emphasis is placed on use of Spanish in the classroom as exclusively as possible and on use of authentic materials to learn about the language and culture. An important component of learning Spanish is using the language in the real world beyond the classroom setting.</p>	
<p><u>English as a Second Language</u> (5710) <u>Level II</u> (5720) <u>Level III</u> (5730) <u>Level IV</u> (5731) Grades 9-12 English as ESL courses intended to satisfy English requirements for graduation should have curricula that have been correlated to the Virginia Standards of Learning (SOL) for English grades 9, 10, 11, and 12. These courses must be taught by "highly qualified" teachers. Students in such ESL English courses must pass the SOL <i>English: Reading/Literature/Research</i> and <i>English: Writing</i> end-of-course assessments to earn verified units of credit and satisfy graduation requirements.</p>	

HEALTH AND PHYSICAL EDUCATION

<p><u>Health and Physical Education 8</u> (7210) Grade Level: 8 Skillful movement in modified, dynamic game/sport situations and in a variety of rhythmic and recreational activities. The grade-eight student applies knowledge of major body structures to</p>	<p><u>Advanced Physical Education I</u> (7640) Grade Levels: 11-12 <i>Prerequisite: P.E. 10</i> This class builds on the concept of fitness and wellness using weight training, flexibility, and conditioning as its major components. The</p>
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<p>explain how body systems interact with and respond to physical activity and how structures help the body create movement. Students will explain the relationship between nutrition, activity, and body composition to deepen understanding of energy balance. Students are able to set goals, track progress, and participate in physical activities to improve health-related fitness. They have a repertoire of abilities across a variety of game/sport, dance, and recreational pursuits and begin to develop competence in specialized versions of lifelong game/sport activities.</p>	<p>emphasis will be placed on incorporating a healthy lifestyle into daily living by developing muscle strength and endurance. Students will be expected to perform a well-balanced fitness routine on a regular basis.</p>
<p>Health and Physical Education 9 (7300) Grade Level: 9 Proficiency in all areas of fitness is explored in this class. Students will perform rhythmic activities, track and field, volleyball and basketball. Health instruction includes alcohol and other drugs, consumer health, disease prevention and control, first aid, personal health, growth and wellness.</p>	<p>Advanced Physical Education II (7650) Grade Level: 12 This class continues to build on the concept of fitness and wellness using weight training, flexibility, and conditioning as its major components. The emphasis will be placed on incorporating a healthy lifestyle into daily living by developing muscle strength and endurance. Students will be expected to perform a well-balanced fitness routine on a regular basis.</p>
<p>Driver Education /Physical Education 10 (7405) Grade Level: 10 <i>Prerequisite: Health & P.E. 9</i> Proficiency in all areas of fitness is explored in this class. Students will perform rhythmic activities, outdoor education, and team sports. Driver education is part of the course and offers students the opportunity to develop knowledge and skills in the safe operation of a motor vehicle. The state requires 36 hours of classroom instruction The behind-the-wheel program covers practical driving and skills necessary to implement knowledge acquired in the classroom. The practical portion includes 14 hours of behind the wheel instruction. There is a fee charged for behind-the-wheel instruction, approximately \$190.</p>	

MATHEMATICS

<p>Math 8 (3112) Grade Level: 8 The eighth-grade standards provide students additional instruction and time to acquire the concepts and skills necessary for success in Algebra I. Students will gain proficiency in computation with rational numbers and will use proportions to solve a variety of problems. New concepts include solving multistep equations and inequalities, graphing linear equations, visualizing three-dimensional shapes represented in two-dimensional drawings, and applying transformations to geometric shapes in the coordinate</p>	<p>Advanced Algebra II and Trigonometry (3138) Grade Levels: 10-12 <i>Prerequisite: Algebra II and Teacher Recommendation</i> Topics will include linear functions and equations, quadratic and polynomial equations with real and complex solutions, exponential and logarithmic equations and functions, transformations, rational expressions, systems of equations, matrices, probability including permutations and combinations, sequences and series, conics, and trigonometry through advanced trigonometric identities.</p>
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<p>plane. Students will verify and apply the Pythagorean Theorem and represent relations and functions, using tables, graphs, and rules. The eighth-grade standards provide a more solid foundation in Algebra I for those students not ready for Algebra I in grade eight.</p>	
<p>Algebra I (3130) Grade Level: 8-9 Algebra I Part I (3131) Grade Level: 8-9 Algebra I Part II (3132) Grade Level: 10 This course covers properties of real numbers. Students will study positive and negative numbers, polynomials, and rational expressions. Solving equations, factoring, graphing in the coordinate plane, and systems of equations are other topics covered. Emphasis is placed on using all the above concepts to solve mathematical problems. Daily assignments are required. A graphing calculator is used throughout the course.</p>	<p>Pre-Calculus (3162) Grade Levels: 11-12 <i>Prerequisites: Algebra II and both Algebra II and Geometry SOLs. Teacher Recommendation and pre-test.</i> The goal of this course is to lay the groundwork for further study of mathematics at the college level. A graphing calculator will be an integral component of the course. Students must demonstrate competence in Algebra II before taking this course.</p>
<p>Algebra Functions Data Analysis/AFDA (3134) Grade Levels: 10-12 <i>Prerequisite: Algebra I and Algebra I SOL</i> This course is designed for students who have successfully completed the standards for Algebra I. Within the context of mathematical modeling and data analysis, students will study functions and their behaviors, systems of inequalities, probability, experimental design and implementation, and analysis of data. Data will be generated by practical applications arising from science, business, and finance. Students will solve problems that require the formulation of linear, quadratic, exponential, or logarithmic equations or a system of equations.</p>	<p>Discrete Mathematics (3154) Grade Levels: 11-12 <i>Prerequisite: Algebra II and Teacher Recommendation</i> Discrete Mathematics involves applications using discrete variables rather than continuous variables. Modeling and understanding finite systems is central to the development of the economy, the natural and physical sciences, and mathematics itself. Discrete Mathematics introduces the topics of social choice as a mathematical application, matrices and their uses, graph theory and its applications, and counting and finite probability, as well as the processes of optimization, existence, and algorithm construction. Emerging technologies are incorporated into the curriculum as they become available.</p>
<p>Geometry (3143) Grade Levels: 9-11 Geometry Part I (3144) Geometry Part II (3145) <i>Prerequisite: Algebra I and Algebra I SOL SOL Test Required</i> This class is designed to develop proficiency with geometric skills and to apply the understanding to real life situations. Emphasis is on application of theorems to practical situations in math and logical</p>	<p>Calculus (3178) Grade Level: 12 <i>Prerequisite: Pre-calculus, Pre-test, and Teacher Recommendation</i> This college-level course is intended to prepare students for college. This course is intended for students who desire a challenge in mathematics. A graphing calculator will be an integral component of the course. Students must</p>

reasoning. A graphing calculator is used throughout the course. Students should demonstrate competence in Algebra I before taking this course.	demonstrate competence in Pre-Calculus and Trigonometry before taking this course.
<p>Algebra II (3135) Grade Levels: 9-12 <i>Prerequisite: Algebra I and Algebra I SOL. Recommend Geometry.</i></p> <p>This class is a study of polynomials, equations, and inequalities with rational and irrational numbers. Also included are studies of functions, algebraic fractions, radicals and exponents, real, and imaginary numbers, and analytic geometry. A graphing calculator is used throughout the course. Students should demonstrate competence in Algebra I before taking this course.</p>	<p>Probability and Statistics (3190) Grade Levels: 11-12 <i>Prerequisite: Algebra II and Teacher Recommendation</i></p> <p>Students enrolled in this course are assumed to have mastered the concepts identified in the Standards of Learning for Algebra II. The purpose of the course is to present basic concepts and techniques for collecting and analyzing data, drawing conclusions, and making predictions.</p>
<p>Computer Mathematics (3184) Grade Levels: 10-12 <i>Prerequisite: Algebra I and Algebra Functions</i></p> <p>This course is intended to provide students with experiences in using computer programming techniques and skills to solve problems that can be set up as mathematical models. Students enrolled in Computer Mathematics are assumed to have studied the concepts and skills in Algebra I and beginning geometry. Students who successfully complete the standards for this course may earn credit toward meeting the mathematics graduation requirement. Strategies include defining the problem; developing, refining, and implementing a plan; and testing and revising the solution. Programming, ranging from simple programs involving only a few lines to complex programs involving subprograms, should permeate the entire course and may include programming a graphing calculator or scripting a problem solution in a database or spreadsheet. Programming concepts, problem-solving strategies, and mathematical applications should be integrated throughout the course.</p>	<p>AP Statistics (3192) Grade Levels: 11-12 <i>The College Board recommends successful completion (Grade: A/B) of Math Analysis/Pre-Calculus as a prerequisite for AP Statistics and Teacher Recommendation</i></p> <p>The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The course will expose students to four broad conceptual themes: (1) exploring data – observing patterns and departures from patterns, (2) planning a study – deciding what and how to measure, (3) anticipating patterns – producing probability and simulation, and (4) statistical inference – confirming models. The course outline covers the topics recommended by the College Board. The pace is fast and intense in order to assure time for practice testing exercises. Students who take this course should plan to take the Advanced Placement Statistics Test given in May.</p>

SCIENCE

<p>Physical Science (4125) Grade 8 <i>SOL Test Required</i></p> <p>The Physical Science standards stress an in-depth understanding of the nature and structure of matter and the characteristics of energy. The standards place considerable emphasis on the technological</p>	<p>Biology I (4310) Grade 10 Biology Part I (4300) Grade 10 Biology Part II (4301) Grade 11</p>
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<p>application of physical science principles. Major areas covered by the standards include the organization and use of the periodic table; physical and chemical changes; nuclear reactions; temperature and heat; sound; light; electricity and magnetism; and work, force, and motion.</p>	<p>This is an introductory course into the study of living organisms. Students will survey the plant, animal, and microorganism kingdoms, exploring the anatomical and behavioral adaptations which allow certain organisms to survive. After completion of the class, students should appreciate well the vast scope of the history of life on earth.</p>
<p>Earth Science (4210) Earth Science Part I (4200) Earth Science Part II (4201) Grade Levels: 10 -12 Earth-Space Science is a course dealing with the topics of geology, meteorology, oceanography, astronomy, conservation, and the environment. The course is divided into lecture-demonstration periods, study periods, and laboratory work periods. The course attempts to show the students the relationships between themselves and Earth processes and the universe.</p>	<p>Biology II: Ecology (4320) Grade Levels: 11-12 <i>Prerequisites: Biology.</i> This course is laboratory based and covers biology and biology honors topics in depth and focuses on contemporary issues. Topics may include environmental science, local flora and fauna, diseases, genetics, evolution, DNA technology, forensic science, anatomy and physiology, food safety, genetically modified foods, and marine biology. Students will be challenged to learn and research, utilizing both classroom experimentation and literature reviews from written and electronic resources, and to present topics in biology in greater depth. Students may engage in fieldwork. Dissections are part of the course; however, alternative projects will be provided for dissections.</p>
<p>Advanced Topics in Earth Science (4220) Grade Levels: 11-12 <i>Prerequisite: Biology and Environmental Science</i> This course surveys key topic areas including the application of scientific process to environmental analysis; ecology; energy flow; ecological structures; earth systems; and atmospheric, land, and water science. Topics also include the management of natural resources and analysis of private and governmental decisions involving the environment. Students explore actual case studies and conduct five hands-on, unit-long research activities, learning that political and private decisions about the environment and the use of resources require accurate application of scientific processes, including proper data collection and responsible conclusions.</p>	<p>Chemistry (4410) Grade Levels: 11-12 <i>SOL Test Required</i> <i>Prerequisite: Biology I & Algebra II; pass Algebra II SOL and Biology SOL; teacher recommendation</i> This course is laboratory based. It covers the study and investigation of the structure and properties of matter. The course addresses the composition and the changes that matter undergoes. It will include a study of energy, reactions, acid/base theory, and how they relate to everyday life. Laboratory investigations with write up will be taught to accommodate the college bound student. Students will take an SOL in the spring.</p>
<p>Environmental Science (3003) Grade Level: 9 The purpose of the new Environmental Science course is to provide foundational content that will prepare students for either Earth Science I or Biology I while also including aspects of other disciplines such as civic engagement, mathematics,</p>	<p>Physics I (4510) Grade Levels: 11-12 <i>Prerequisite or co-requisite: Pre-calculus</i> This course explores the behavior of our physical world through analysis of motion using force, energy, and momentum concepts, followed by a study of electricity and magnetism, light, sound,</p>

<p>and engineering. The goal of the course is to provide the students with the skills and content necessary for them to analyze current and future environmental issues, both natural and man-made, through a critical lens and to provide a platform to make informed decisions. This course will provide students the opportunity to learn environmental concepts in depth and build on the concepts currently embedded in the 2010 <i>Science Standards of Learning</i>.</p>	<p>and wave behavior. The necessary mathematics is reviewed in class and is used to support the more challenging conceptual understanding that will be developed.</p>
<p>Integrated Science (3201) <i>Prerequisite: Biology</i> This unique curriculum is built around student teams attacking problem-oriented exercises while mastering interdisciplinary concepts. Biology, chemistry, mathematics, physics and statistics are intertwined, in lectures and in labs, to achieve a dynamic understanding of a wide range of fundamental principles within the modern scientific method.</p>	<p>Chemistry II (4420) <i>Prerequisite: Chemistry I</i> Extension of Chemistry interaction investigated using experimentation, mathematical reasoning, and problem-solving. Areas of study include atomic theory, chemical bonding, chemical reactions, molar relationships, kinetic molecular theory, solutions and thermodynamics. Students will use chemicals and equipment safely when applying chemistry content in a laboratory setting. Mathematics, computational thinking, and experience in the engineering design process are essential as students advance in their scientific thinking.</p>

SOCIAL STUDIES

<p>Civics (2357) Grade Level: 8 <i>SOL Test Required</i> Examine the roles citizens play in the political, governmental, and economic systems in the United States. Students will examine the constitutions of Virginia and the United States, will identify the rights, duties, and responsibilities of citizens, and will describe the structure and operation of government at the local, state, and national levels. Students will investigate the process by which decisions are made in the American market economy and explain the government's role in it. The standards identify personal character traits, such as patriotism, respect for the law, willingness to perform public service, and a sense of civic duty, that facilitate thoughtful and effective active participation in the civic life of an increasingly diverse democratic society.</p>	<p>DE VA/US Government and Politics (2440D) Grade Level: 12 <i>Prerequisite: RCC entrance exam (VA placement test)</i> <i>Hybrid format: Online and RCC Instructor</i> Teaches structure, operation, and process of national, state, and local governments. Includes in-depth study of the three branches of the government and of public policy. Independent research projects of various sizes and oral presentations are required for completion of this course. Several Socratic Seminars may be held throughout the year dealing with major political questions and current issues. Exam requirements may differ from ECPS.</p>
<p>World Geography (2210)</p>	<p>African Studies (2371)</p>

<p>Grade Level: 9 Geography is the study of people, places, and resources. Students will explore the five themes of geography-location, place, region, movement, and human-environmental interaction. Physical and cultural geography of each continent will be discussed using various types of maps. Students will also compare economic and government systems and the impact of resources on development. Elements of culture like language, religion, art, and architecture will be examined for each region of the world. Students will also discuss problems like natural disasters, poverty, and rapid urbanization. An emphasis will be placed on interdependence and cooperation between regions of the world.</p>	<p>Grade Levels: 11-12 <i>Prerequisite: Minimum of 1 completed History SOL</i> This course is designed to provide students with a comprehensive overview of the African American experience beginning with Africa through modern times. This course will address the introduction of Africans to the Americas, enslavement, emancipation, and the social and political challenges and triumphs that followed. In addition, the course will highlight the social, cultural and political contributions of African Americans to American society.</p>
<p><u>Modern World History A.D. - Present</u> (2216) Grade Level: 10 <i>Prerequisite: Teacher Recommendation</i> This course focuses on the study of the modern world from 1600 A.D. Students’ understanding of the relationships of history, geography, economic and political events will be emphasized. Using texts, maps and charts, students will develop a comprehension of the history of different cultures and how this history has become part of American culture. Spatial concepts of geography will be connected to the chronological development of nations and people.</p>	<p><u>Sociology Online</u> (2500) Grade Levels: 10–12 <i>Possible online format</i> This course is a subject about how people act, react, and interact in their everyday lives, as well as under unusual circumstances. Students will learn how research on groups of varying sizes is conducted to help predict behavior, as well as studying adolescence, the adult and elderly, death and dying, social inequality, and marriage and family. The class requires several research projects such as developing one’s family tree, conducting community observations, and studying a particular social problem through current events. Several Socratic Seminars are held throughout the year concerning major social issues.</p>
<p><u>Virginia and United States History</u> (2360) Grade Level: 11 <u>Virginia and United States History I</u> (2361) Grade Level 10 <u>Virginia and United States History II</u> (2362) Grade Level 11 This course is a study of the founding and development of the United States through the examination of major events, people, issues, and policies. The principles in major documents such as the declaration of Independence, the Constitution, and the Virginia Statute of Religious Freedom are examined and related to life in modern times. Skills are developed in the areas of interpreting charts, and graphs, as well as learning the mechanics of developing a research project on a topic of the students’ choice.</p>	<p><u>Psychology Online</u> (2900) Grade Levels: 11-12 Individual think, feels, and reacts to certain stimuli. Major emphasis will be placed on research methods, stages in childhood and adolescence, how the brain works, altered states of consciousness, psychological testing, and psychological disorders.</p>
<p><u>DE United States History</u> (2355) Grade Level: 11</p>	<p><u>A.P. Government and Politics</u> (2445) Grade Level: 12</p>

<p><i>Prerequisite: RCC entrance exam (VA placement test)</i> <i>Hybrid format: Online and RCC Instructor</i> This course is a college level class and students earn both high school and college credit. It is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with problems and issues in American History. Students will learn to evaluate historical materials for relevance to a problem, reliability, and importance. Methods of instruction include movies, lectures, essays, reading, book critiques, research papers, and role modeling. Exam requirements may differ from ECPS.</p>	<p><i>Prerequisite: AP application</i> This College Board Advanced Placement course is taught as a college course to prepare seniors to take the AP examination and potentially earn college credit. Students will develop an analytical perspective on government and politics in the United States. The course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. Students will become familiar with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. This course is for highly motivated students who are ready for college coursework. Students should also have a genuine interest in government and politics. Exam requirements may differ from ECPS. Students must take AP Exam to receive weighted credit.</p>
<p>Virginia and United States Government (2440) Grade Level: 12 This class consists of an in-depth study of our Democratic Republic and its interactions and relations with foreign governments. It takes an extensive look at the Constitution, its history, its changes, and each of the three branches of government which it establishes- the executive, legislative, and judicial. Additional focus is placed on the current issues that affect our country in its domestic and foreign affairs, as well as criminal law, political parties, and state and local governments. Independent research projects of various sizes and oral presentations are required for completion of this course. Several Socratic Seminars may be held throughout the year dealing with major political questions and current issues.</p>	

SPECIAL EDUCATION

<p>Reading & Language Arts (1709) Grade Levels: 9-12 <i>Designed for students receiving an Applied Studies Diploma</i> The reading portion of this class is designed to provide individualized instruction to aid students in the following areas: word-recognition, utilization of context clues, sentence structure development, essential spelling and dictionary skills, pleasure reading, and comprehension skills. This class is also designed to provide individualized instruction in the development of communication skills, especially the basic skills of listening, speaking, writing, and reading. Vocabulary development is an important component of the class. Emphasis is placed on survival skills in reading, and life skills are stressed. Grammar emphasizes sentence structure, capitalization and punctuation</p>	<p>Instructional Assistance (7867) Grade Levels: 8-12 <i>Prerequisite: Teacher Recommendation and IEP placement</i> Instructional Assistance is a learning support program. The focus is on study and organizational skills. Students must keep a planner and write assignments in the planner. Students will focus on learning how to become more organized and independent. Students will have the option to utilize the computer lab to improve reading and math skills. This class is non-graded and students do not receive credit for this course.</p>
<p>Math (3709) Grade Levels: 9-12</p>	<p>Adapted Physical Education (7700) Grade Levels: 8-12</p>

<p><i>Designed for students receiving an Applied Studies Diploma</i></p> <p>This class is designed to provide individualized and small group instruction for students on their math levels. It stresses the development of math concepts and computational skills in addition, subtraction, multiplication, division, problem-solving, place value, money, paychecks, simple geometry, fractions, decimals, percent, and measurements. Independent living skills are stressed.</p>	<p>Adapted Physical Education is physical education which has been adapted or modified, so that it is appropriate for the person with a disability as it is for a person without a disability. Federal law mandates that physical education be provided to students with disabilities and defines Physical Education as the development of: physical and motor skills, fundamental motor skills and patterns (throwing, catching, walking, running, etc.), and skills in aquatics, dance, and individual and group games and sports (including intramural and lifetime sports)</p>
<p>Social Studies (2709) Grade Levels: 9-12 <i>Designed for students receiving an Applied Studies Diploma</i></p> <p>This class provides instruction on the development of the United States through the examination of major events, people, issues and policies. This course is designed to improve the students' knowledge of U.S. and Virginia history, geography, and government. Major skills emphasized include map and globe skills, chart and graph interpretation, as well as thinking skills. The SOLs for U.S. history and government will be covered over a four-year span.</p>	<p>Vocational Education (7709) Grade Levels: 9-12 <i>Designed for students receiving an Applied Studies Diploma</i></p> <p>This class provides instruction to help students learn basic work skills for everyday living in such tasks as banking, completing job applications, interviewing for jobs, reading classified ads, and using the telephone properly. This class identifies a wide range of job opportunities and aids students in making appropriate career choices. Students become competent in economic self-sufficiency. They will demonstrate the knowledge necessary to obtain and manage living quarters.</p>
<p>Science (4709) Grade Levels: 9-10 <i>Designed for students receiving an Applied Studies Diploma</i></p> <p>This introductory course covers the topics of Geology, Meteorology, Oceanography, Astronomy, Conservation, and the Environment. It attempts to show the students the relationships between themselves and their surroundings.</p>	<p>Independent Living Skills (7896) Grade Levels: 9-12 <i>Designed for students receiving an Applied Studies Diploma</i></p> <p>This class provides a variety of basic life skills instruction in order to live more independently within our society. Students will practice hands on experiences such as washing clothes, going to a laundromat, cooking, following a recipe, reading maps, using a phone/ phonebook, performing calls to obtain information, mailing letters/bills, typing, keyboarding, and computer skills.</p>

NORTHERN NECK TECHNICAL CENTER

P.O. BOX 787, WARSAW, VA 22572

PHONE: (804) 333-4940 FAX: (804) 333-0538

The Northern Neck Technical Center (NNTC) is a secondary school offering technical courses to students in the five school districts in the Northern Neck and one in the Middle Peninsula. Students attend classes in block periods. The first block runs from 9:00 to 11:30 a.m. The second block is from 12:00 to 2:30 p.m.

A Northern Neck Technical Center Application must be completed and submitted by all students enrolling in the following programs. All students must be 16 years old on or before December 1st of the current school year to enroll in a NNTC program of studies. Students receive 3 credits for each class.

One Year Courses	Two Year Courses
Nursing (DE)	Auto Body
Horticulture	Auto Technology
Landscaping	Carpentry/Residential Construction
Civil Engineering (One Semester) Eng. Design & Development (One Semester)	Computer Systems Technology
	Cosmetology
	Culinary Arts (DE)
	Electricity
	Marine Trades

*Students in Cosmetology and Nursing Assistant courses are required to take the State board for licensure upon completion of the classes. Our Nursing Assistant and Culinary Arts students receive college and high school credit upon completion of these dual enrollment courses.

All completers are required to take an industry certification test for a verified credit.

<p><u>Automotive Body I</u> (8676) Grade Level: 11</p> <p><u>Automotive Body II</u> (8677) Grade Level: 12</p> <p>The Collision Repair Technology course is designed to give training in automobile body repair, body construction, all types of collision repair including frame and wheel alignment, body panel repair and replacement, MIG welding, brazing, spot repairing and estimating. Repair Persons must be able to analyze correctly all types of body damage and restore vehicles to their original appearances. This is a two-year program, but students may return for a third year through special arrangements.</p>	<p><u>Culinary Arts I</u> (8275) Grade Level: 11</p> <p><u>Culinary Arts II</u> (8276) Grade Level: 12</p> <p>The Culinary Arts course is designed to prepare students for entering employment in food service occupations. The training program is particularly valuable because a major portion of the student's skill is acquired through actual cooking, study in the use and care of equipment, food standards and proper sanitation procedures including public health aspects of food handling. This course is dual enrolled by RCC and students must pass the RCC placement test.</p>
<p><u>Automotive Technology I</u> (8710) Grade Level: 11</p> <p><u>Automotive Technology II</u> (8711) Grade Level: 12</p> <p>The Auto Technology program is designed to provide a thorough knowledge of the mechanics of the modern automobile and all its supporting systems, to develop an individual's mechanical ability, and develop interest in an automotive repair and service career. The curriculum is designed primarily for persons who seek full-time employment in the automotive maintenance and general repair field immediately upon completion of</p>	<p><u>Electricity I</u> (8533) Grade Level: 11</p> <p><u>Electricity II</u> (8544) Grade Level: 12</p> <p>With the growth of housing and industry, more appliances and electrical equipment are showing up in the environment and there has become a need for electricians and technicians to install, repair, and maintain these commodities. Residential wiring is the basis for all these areas that involve the transportation and use of electricity. This career can be continued in Community college or a job training program offered by many large industries. The</p>

<p>the two-year program. For one to advance successfully in this program of study, a thorough understanding of the automobile, its basic operating principles, mechanical aptitude, and manual dexterity are required. The curriculum follows the standards of A.S.E. (National Institute for Automotive Service Excellence) and includes: engine performance, use of diagnostic equipment, the theory of computer-controlled automotive systems, electronic systems, and VA State inspections.</p>	<p>program focuses first and foremost on safety. Other areas the students will explore are: Hand tools and power tool use, Equipment and materials identification, Circuitry diagramming, Splicing and connections, Rough-in of boxes and cables, Blueprint reading, Working to the electrical code, Employer/employee relations</p>
<p><u>Carpentry I/Residential Construction</u> (8601) Grade Level: 11 <u>Carpentry II/Residential Construction</u> (8602) Grade Level: 12 This group of instructional programs prepares students to erect, install, maintain, and repair buildings, and other structures using materials such as metal, wood, stone, brick, glass, concrete and composition substances. Students develop skills in estimating costs; cutting, fastening, and fitting various materials; using hand and power tools; and following technical specifications and blueprints.</p>	<p><u>Horticulture</u> (8031) Grade Levels: 11-12 The Horticulture course enables students to develop the necessary knowledge, skills, habits and attitudes for entry level employment and advancement in areas such as floriculture, landscaping design, greenhouse operations, nursery plant production, and turf management. Students receive instruction in using soil and other plant growing media and in identifying, propagating, and growing horticultural plants in the greenhouse and land laboratory. Instruction is provided in safety practices and leadership development.</p>
<p><u>Computer Systems Technology I</u> (8623) Grade Level: 11 This course is designed to provide students with classroom and laboratory experience in current and emerging networking technology that will empower them to enter employment and/or further education and training in the computer networking field. A task analysis of current industry standards and occupational analysis was used in the development of the content standards. Instruction includes, but is not limited to, safety, networking, networking terminology and protocols, network standards, LANs, WANs, OSI models, Ethernet, Token Ring, Fiber Distributed Interface, TCP/IP Addressing Protocol, Dynamic Routing, Routing, and the Network Administrator's role and function. Particular emphasis is given to the use of decision-making and problem solving techniques in applying science, mathematics, communication, and social studies concepts to solve networking problems. In addition, instruction and training are provided in the proper care, maintenance and use of networking software, tools and equipment, and all local, state and federal safety, building and environmental codes and regulations.</p>	<p><u>Landscaping</u> (8033) Grade Levels: 11-12 The Landscaping program teaches students how to design and construct landscapes, identify landscape plants, and to allow students the opportunity to learn about the landscaping industry. Students will study turf management practices along with working on school and community projects.</p>
<p><u>Computer Systems Technology II</u> (8622)</p>	<p><u>Marine Trades I</u> (8750)</p>

<p>Grade Level: 12 This course includes the study of computer hardware, software, functions, and limitations of computer systems; and exposes students to the techniques used in programming and system development. The students learn how to disassemble and reassemble the PC, with emphasis on replacement and upgrading components. Students are provided classroom and laboratory experience in Net-working technology. Instruction includes networking terminology, protocols, standards, cabling, routers and network standards. Upon completion of this course, students may take the A+ Examination leading to A+ Certification.</p>	<p>Grade Level: 11 Marine Trades II (8751) Grade Level: 12 This Marine Service Technology program is designed to offer students hands-on operation of boats, motors and trailers and to teach the practical application in the field of Marine Technology. The curriculum is a Virginia Department of Education modification of an existing ABYC course and is designed to bring into the Marine Trades a force of younger workers who will learn about the various Maritime fields. It is being offered as a partnership between local high schools, the ABYC, the Atlantic Boat and Yacht Trades School, and the Virginia Institute of Marine Science Marine Advisory Program.</p>
<p>Cosmetology I (8527) Grade Level: 11 Cosmetology II (8528) Grade Level: 12 Cosmetology is a two-year course. It provides training in manicuring, shampooing, permanent waving, facials, massages, scalp treatment, hair cutting, chemical relaxing and styling. A student who satisfactorily completes the two years of study in cosmetology at the center qualifies to take the State Board Examination to become a licensed cosmetologist. This course is restricted to eleventh and twelfth graders who should be ready to take the state board exam just after graduation from high school.</p>	<p>Nurse Aide (8360) Grade Levels: 11-12 <i>Prerequisite: Nursing Application and 2 Teacher Recommendations</i> This is a college level course with dual enrollment at Rappahannock Community College. Nursing Assistant is a one-year program designed to help a student learn basic knowledge and develop skills necessary to become a nursing aide. In health care facilities, this work generally consists of bathing patients, tracking and recording vital signs and other duties that enable nurses to devote more time to work requiring professional and technical training. This program consists of theory and practice in the classroom setting, and clinical experience in the local nursing homes and hospitals. At the completion of this program, students will be eligible to take the State Board of Nurse's Aide Examination. This examination consists of both a written and manual test. Successful completion allows the student to be placed on the State Registry for Certified Nurse's Aides.</p>

STEM Academy

Program Focus: The program will focus on science, technology, engineering, mathematics and will include correlated "hands-on" instruction in science and mathematics.

The following courses are part of a sequence taken in the same year at the Northern Neck Technical Center. The first course (CEA) is taken in the first semester and the second course (EDD) is taken in the second semester. The courses are offered in the pm timeframe. Students have to apply for the program through the NNTC application process.

<p><u>Introduction to Engineering</u> (8439) Grade Levels: 10-12 <i>Prerequisite: Algebra I This is a dual enrollment course and requires students to pass specific levels of the Virginia Placement Test before enrollment.</i> This course is designed for ninth grade students who are interested in attending the STEM Academy for engineering, horticulture, or science and technology. This course is a combination of on-line modules and weekly instruction by a STEM teacher. While undergoing an orientation to the careers and challenges of engineering, students are actively involved with high-tech devices, engineering graphics, and mathematical concepts and scientific principles through problem-solving experiences. Activities in descriptive geometry, materials science, and technical systems challenge students as they communicate information through seminars, technical reports, and idea sharing.</p>	<p><u>Advanced Engineering</u> (8441) Grade Levels: 11-12 <i>Prerequisite: Introduction to Engineering</i> This course is designed to teach the applications and design process of engineering. Students form engineering teams and select a group design problem. Each team uses communications, graphics, mathematics, and community resources to solve problems. Each team learns appropriate information in order to complete a project. Projects may be models, systems, or products that creatively solve an engineering problem. This course is a combination of on-line modules and weekly instruction by a STEM teacher.</p>
<p><u>Civil Engineering and Architecture (CEA)</u> (8430) Grade Levels: 11-12 <i>Prerequisite: Advanced Engineering</i> Credit hours: 1/2 year, 1.5 credits The major focus of this course is completing long-term projects that involve the development of property sites. As students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of this property. The course provides teachers and students freedom to develop the property as a simulation or for students to model the experiences that civil engineers and architects face. Students work in teams, exploring hands-on activities and projects to learn the characteristics of civil engineering and architecture. In addition, students use Revit, which is a state of the art 3D design software package from Autodesk, to help them design solutions to solve major course projects. Students learn about documenting their project, solving problems and communicating their solutions to their peers and members of the professional community of civil engineering and architecture.</p>	<p><u>Engineering Design & Development (EDD)</u> (8443) Grade Levels: 11-12 Credit hours: 1/2 year, 1.5 credits This capstone course allows students to design a solution to a technical problem of their choosing. This is an engineering research course in which students will work in teams to research, design, test, and construct a solution to an open-ended engineering problem. The product development lifecycle and a design process are used to guide and help the team to reach a solution to the problem. The team presents and defends their solution to a panel of outside reviewers at the conclusion of the course. The EDD course allows students to apply all the skills and knowledge learned in previous Project Lead the Way courses. The use of 3D design software helps students design solutions to the problem their team has chosen. This course also engages students in time management and teamwork skills, a valuable asset to students in the future.</p>

CAREER AND TECHNICAL EDUCATION (CTE)

Career and technical education programs in Virginia public schools serve more than 550,000 students in

grades 6-12. These programs are designed to prepare young people for productive futures while meeting the commonwealth's need for well-trained and industry-certified technical workers.

All students are required to be CTE completers upon graduation. This requires **two sequential courses** in a program area. Economics and Personal Finance is a graduation requirement for high school students who entered 9th grade in 2011-2012 and beyond. Although it is a required course, it cannot count as part of the completion sequences.

Career Pathways

Career Cluster	Concentration	First Year	Second Year	Third Year
Business Management and Administration	General Management	Principles of Business & Marketing	Business Law	Entrepreneurship Education
Business Management and Administration	General Management	Principles of Business & Marketing	Computer Information Systems	Entrepreneurship Education
Business Management and Administration	General Management	Computer Information Systems	Medical Systems Administration	Design, Multimedia, and Web Technologies
Business Management and Administration	General Management	Medical Systems Administration	Business Law	Entrepreneurship Education
Business Management and Administration	General Management	Medical Systems Administration	Computer Information Systems	Entrepreneurship Education
Hospitality and Tourism	Travel and Tourism	Principles of Business & Marketing	Entrepreneurship Education	Hospitality and Tourism
Information Technology	Information Support and Services	Entrepreneurship Education	Design, Multimedia, and Web Technologies	Computer Information Systems
Information Technology	Information Support and Services	Entrepreneurship Education	Computer Information Systems	Advanced Computer Information Systems
Information Technology	Information Support and Services	Entrepreneurship Education	Medical Systems Administration	Computer Information Systems
Information Technology	Web and Digital Communications	Entrepreneurship Education	Computer Information Systems	Design, Multimedia, and Web Technologies
Information Technology	Web and Digital Communications	Entrepreneurship Education	Medical Systems Administration	Design, Multimedia, and Web Technologies
Information Technology	Web and Digital Communications	Computer Information Systems	Design, Multimedia, and Web Technologies	Advanced Design and Multimedia Web

<p>Computer Applications (6611) Grade Level: 8 Students develop or review correct keyboarding techniques and gain a basic knowledge of word processing, spreadsheet, database, graphics, and telecommunications applications. Students demonstrate an understanding of computer concepts through application of knowledge. Students learn to use software packages and local and worldwide network communications systems. Grade 8 Computer/Technology Standards of Learning are incorporated and reinforced in this course.</p>	<p>Computer Information Systems (6612) Students apply problem-solving skills to real-life situations through word processing, spreadsheets, databases, multimedia presentations, and integrated software activities. Students work individually and in groups to explore computer concepts, operating systems, networks, telecommunications, and emerging technologies. Essex High School participates in the Governor's Microsoft Academy</p>
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<p><u>Principles of Business and Marketing</u> (6115) Students discover the roles of business and marketing in the free enterprise system and the global economy. Basic financial concepts of banking, insurance, credit, inheritance, taxation, and investments are investigated to provide a strong background as students prepare to make sound decisions as consumers, wage earners, and citizens. The real-world impact of technology, effective communication, and interpersonal skills is evident throughout the course. This course also supports career development skills and explores career options.</p>	<p><u>Design Multimedia/Web Technology</u> (6630) Students develop proficiency in designing and creating desktop-published projects, multimedia presentations/projects, and Web sites, using industry-standard application software. Students apply principles of layout and design in completing projects. Students create portfolios that include a résumé and a variety of desktop-published, multimedia, and Web-site projects produced in the course.</p>
<p><u>Advanced Design Multimedia Web</u> (6631) <i>Prerequisite: Design and Multimedia Web</i> Students develop advanced skills for creating desktop-published, interactive multimedia, and Web-site projects. Students work with sophisticated hardware and software, applying skills to real-world projects.</p>	<p><u>Business Law</u> (6131) <i>Prerequisite: Business Management</i> In Business Law, students gain knowledge of legal principles pertaining to business activities. Students will acquire an understanding of law as it applies to daily living and a working knowledge of the legal system for consumers.</p>
<p><u>Fashion Marketing</u> (8140) <i>Prerequisite recommended: Principles of Business and Marketing</i> This course designed to offer an overview of the fashion industry. It provides the foundation in preparing students for a wide range of careers available in the different levels of the fashion industry, Emphasis is given to historical development, textiles, manufacturers, merchandising, domestic and foreign markets, accessories, and retailing.</p>	<p><u>Medical Systems Administration</u> (6730) <i>Prerequisites: Computer Applications or Computer Information Systems</i> Students wishing to gain employment in the healthcare field may take this course to learn how to use medical terminology and apply administrative procedures necessary to be productive employees in a healthcare environment. Students will learn how to manage office activities, enhance communication skills, identify legal and ethical issues in health care practices, manage financial functions, and enhance employability skills.</p>
<p><u>Opportunities in Hospitality and Tourism</u> (8139) This course examines the components of the hospitality and tourism industry, including attractions, lodging, transportation, and food and beverage. Other topics include the history, political, social, and cultural impacts hospitality and tourism have had on local, state, and global environments. Students will develop competencies in the areas of communication, customer service, marketing, industry technology, economics, and management functions, and will be provided with opportunities for hands-on, real-world applications. also a part of this course.</p>	<p><u>Business Management</u> (6135) Students study basic management concepts and leadership styles as they explore business ownership, planning, operations, marketing, finance, economics, communications, the global marketplace, and human relations. Quality concepts, project management, problem solving, and ethical decision making are an integral part of the course.</p>
<p><u>Sports Entertainment and Marketing</u> (8175) Sports and Entertainment Marketing is a unique and innovative course designed for students with an interest in the sports and entertainment industry. This course stresses the utilization of fundamental marketing</p>	<p><u>Entrepreneurship Education</u> (9093) In this introductory business course, students learn the basics of planning and launching their own successful business. Whether they want to start their own money-making business or</p>

<p>concepts and will include an orientation to the sports and entertainment industry. Marketing strategies along with topics in sponsorship, pricing, marketing research, endorsements, and promotions will be part of this course.</p>	<p>create a non-profit to help others, this course helps students develop the core skills they need to be successful. They learn how to come up with new business ideas, attract investors, market their business, and manage expenses. Students hear inspirational stories of teen entrepreneurs who have turned their ideas into reality, and then they plan and execute their own business.</p>
<p>Advanced Design Multimedia Web (6631) <i>Prerequisite: Design and Multimedia Web</i> Students develop advanced skills for creating desktop-published, interactive multimedia, and Web-site projects. Students work with sophisticated hardware and software, applying skills to real-world projects.</p>	<p>Advanced Computer Information Systems (6613) <i>Prerequisites: Computer Information Systems</i> Students apply problem-solving skills to real-life situations through advanced integrated software applications, including printed, electronic, and Web publications. Students work individually and in groups to explore advanced computer maintenance activities, Website development, programming, networking, emerging technology, and employability skills.</p>
<p>Technology of Robotic Design (8421) <i>Prerequisite: Teacher Recommendation and Algebra II</i> Students engage in the study of computers and microprocessors and their applications to manufacturing, transportation, and communication systems. Topics include computer equipment and operating systems, robotics, programming, control systems, and social/cultural impact of these technologies. Problem-solving activities challenge students to design, program, and interface devices with computer systems. Learning activities include robotics, computer-aided design, computer-aided manufacturing and design, and control of electromechanical devices.</p>	<p>Electronic Systems (8416) <i>Prerequisite: Teacher Recommendation and Algebra II</i> Electronic devices are everywhere in modern life and business, and, as a result, opportunities abound for any who should master the knowledge and skills required to design, alter, repair, and construct them. This course allows students the opportunity to explore principles of electricity, apply knowledge in mathematics and science, and conduct experiments with electronics. Students solve problems using simple electrical devices and circuits and build electronic projects using DC and AC devices and circuits.</p>
<p>Advanced Fashion Marketing (8153) Students with an interest in apparel and accessories marketing gain in-depth knowledge of the apparel and accessories industry and skills utilized in various apparel businesses. They develop advanced skills unique to fashion marketing and advanced general marketing skills applied to the apparel and accessories industry. Professional selling, sales promotion, buying, merchandising, marketing research, economics, hiring and retaining employees, product/service technology, and supervision as well as academic skills (mathematics, science, English, and history/social science) related to the content are part of this course.</p>	<p>Digital and Social Media Marketing (8125) This course introduces students to digital and social media marketing. Students explore principles, strategies, tools, and tactics related to consumers, branding, advertising, and promotions. Students explore how success is measured in a digital and social media marketing campaign. This course emphasizes ethics, laws, and security. Students also investigate business and marketing plans as well as careers in digital and social media marketing.</p>
<p>Economics and Personal Finance (6120) Grade Levels: 10-12</p>	<p>AP Computer Science (3185) The design and implementation of computer programs to solve problems involve skills that</p>

<p>Required by the Virginia Department of Education for graduation and has required virtual component required for graduation.</p> <p>Students learn how to navigate the financial decisions they must face and to make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living independently, and inheritance. Development of financial literacy skills and an understanding of economic principles will provide the basis for responsible citizenship and career success. In addition to developing personal finance skills, students in the 36-week course will also study basic occupational skills and concepts in preparation for entry-level employment in the field of finance. The course incorporates all economics and financial literacy objectives included in the Code of Virginia §22.1-200-03B.</p>	<p>are fundamental to the study of computer science. This include algorithms and fundamental data structures, and the use of logic and formal methods. Students are required to take the AP Exam.</p>
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<p>Computer Science (10020)</p> <p><i>Course is approved as a Science Course</i></p> <p>Emphasis on computer programming within the context of broader concepts of computer science. The standards build on the concepts of computer science developed in prior grade levels. The standards provide a transition from block-based programming to a text-based programming language and familiarize the student with developing and executing computer programs. Teachers are encouraged to select programming languages and environments, problems, challenges, and activities that are appropriate for their students to successfully meet the objectives of the standards.</p>

Family and Consumer Sciences

<p><u>Family Relations</u></p> <p>18 Weeks (8223) 36 Weeks (8225)</p> <p><i>Prerequisite: Independent Living</i></p> <p><i>1 credit</i></p> <p>Family Relations will focus on analyzing the significance of the family, nurturing human development throughout the lifespan, analyzing factors that build and maintain healthy family relationships, developing effective communication, dealing with family stressors and conflicts, managing work and family roles and responsibilities, and analyzing social forces that influence families across the life span.</p>	<p><u>Life Planning</u></p> <p>18 Weeks (8226) 36 Weeks (8227)</p> <p><i>1 credit</i></p> <p>Life Planning equips students with life skills. Creating and maintaining healthy relationships, practicing personal nutrition, health, and wellness, and developing a life-management plan are emphasized through relevant life applications.</p>
<p><u>Nutrition & Wellness</u></p> <p>18 Weeks (8228) 36 Weeks (8229)</p> <p>Students enrolled in Nutrition and Wellness focus on making choices that promote wellness and good</p>	<p><u>Independent Living</u></p> <p>18 Weeks (8214) 36 Weeks (8219)</p> <p>Students in Independent Living build life skills focusing on establishing positive relationships,</p>

<p>health; analyzing relationships between psychological and social needs and food choices; choosing foods that promote wellness; obtaining and storing food for self and family; preparing and serving nutritious meals and snacks; selecting and using equipment for food preparation; and identifying strategies to promote optimal nutrition and wellness of society. Critical thinking, practical problem solving, and entrepreneurship opportunities within the area of nutrition and wellness are emphasized.</p>	<p>balancing work and family life, investigating careers, making responsible consumer choices, applying nutrition and wellness knowledge, and studying child development and parenting.</p>
<p>Introduction to Culinary Arts I (8250) <i>Prerequisite: Teacher Recommendation and Nutrition and Wellness Course</i> The Introduction to Culinary Arts curriculum provides students with opportunities to explore career options and entrepreneurial opportunities within the food service industry. Students investigate food safety and sanitation, explore culinary preparation foundations, practice basic culinary skills, explore diverse cuisines and service styles, investigate nutrition and menu development, and examine the economics of food. The curriculum places a strong emphasis on science and mathematics knowledge and skills. This course is a lead course to the Culinary program at NNTC.</p>	

8th Grade Course of Study

<p>English 8 (1120) <i>Writing and Reading SOL Test Required</i> This class builds upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. Grammar will include not only a review of parts of speech, but also methods of developing paragraphs and longer compositions. This class introduces and defines various genres of literature, with writing exercises linked to reading selections.</p>
<p>Civics (2357) <i>SOL Test Required</i> Examine the roles citizens play in the political, governmental, and economic systems in the United States. Students will examine the constitutions of Virginia and the United States, will identify the rights, duties, and responsibilities of citizens, and will describe the structure and operation of government at the local, state, and national levels. Students will investigate the process by which decisions are made in the American market economy and explain the government's role in it.</p>
<p>Physical Science (4125) <i>SOL Test Required</i> The Physical Science standards stress an in-depth understanding of the nature and structure of matter and the characteristics of energy. The standards place considerable emphasis on the technological application of physical science principles. Major areas covered by the standards include the organization and use of the periodic table; physical and chemical changes; nuclear reactions; temperature and heat; sound; light; electricity and magnetism; and work, force, and motion.</p>
<p>Math 8 (3112) or Algebra I (3130) <i>SOL Test Required</i> The eighth-grade standards provide students additional instruction and time to acquire the concepts and skills necessary for success in Algebra I. Students will gain proficiency in computation with rational numbers and will use proportions to solve a variety of problems. New concepts include solving multistep equations and inequalities, graphing linear equations, visualizing three-dimensional</p>

shapes represented in two-dimensional drawings, and applying transformations to geometric shapes in the coordinate plane. Students will verify and apply the Pythagorean Theorem and represent relations and functions, using tables, graphs, and rules. The eighth-grade standards provide a more solid foundation in Algebra I for those students not ready for Algebra I in grade eight.

Health and Physical Education 8 (7210)

Skillful movement in modified, dynamic game/sport situations and in a variety of rhythmic and recreational activities. The grade-eight student applies knowledge of major body structures to explain how body systems interact with and respond to physical activity and how structures help the body create movement. Students will explain the relationship between nutrition, activity, and body composition to deepen understanding of energy balance. Students are able to set goals, track progress, and participate in physical activities to improve health-related fitness. They have a repertoire of abilities across a variety of game/sport, dance, and recreational pursuits and begin to develop competence in specialized versions of lifelong game/sport activities.

Computer Applications (6611)

Students develop or review correct keyboarding techniques and gain a basic knowledge of word processing, spreadsheet, database, graphics, and telecommunications applications. Students demonstrate an understanding of computer concepts through application of knowledge. Students learn to use software packages and local and worldwide network communications systems. Grade 8 Computer/Technology Standards of Learning are incorporated and reinforced in this course.

Career Investigations (9070)

This course allows students to explore career options and begin investigating career opportunities. Students assess their roles in society, identify their roles as workers, analyze their personal assets, complete a basic exploration of career clusters, select career pathways or occupations for further study, and create an Academic and Career Plan based on their academic and career interests. This course also helps students identify and demonstrate the workplace skills that employers desire in their future employees.