

Rappahannock County High School



Photograph by Trey Jenkins

Program of Studies

Revise April 2019

**PUBLIC NOTICE
NONDISCRIMINATION POLICY**

In compliance with Executive Order 11246, Title II of the Education Amendment of 1976, Title VI of the Civil Rights Act of 1964, as amended by the Equal Employment Opportunity Act of 1972, Section 504 of the Rehabilitation Act of 1973, and all other Federal, State School rules, laws, regulations and policies, Rappahannock County Public Schools shall not discriminate on the basis of race, color, national origin, religion, gender, age, or disability in educational programs and activities.

It is the intent of Rappahannock County Public Schools to comply with both the letter and spirit of the law in making certain that discrimination does not exist in its policies, regulations, and operations. Grievance procedures, for Title IX and Section 504, have been established for students, their parents and employees who feel discrimination has been shown by the school division.

All students attending Rappahannock County Public Schools may participate in educational programs and activities, including but not limited to, health, physical education, music, career and technical education. Educational programs and services will be designed to meet the varying needs of all students and will not discriminate against any individual for reason of race, color, national origin, religion, gender, age or disability.

Specific complaints of alleged discrimination under Title IX (gender) and Section 504 (disabilities) should be referred to:

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NONDISCRIMINATION STATEMENT

Rappahannock County Public Schools do not unlawfully discriminate on the basis of race, color, national origin, religion, gender, age, or disability in employment or in its educational programs and activities and provides equal access to the Boy Scouts and other designated youth groups.

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To Our Students

The information in this *Program of Studies* booklet will assist you in planning your high school course of study. We strongly encourage you to read through this publication prior to registration and to consult with your parents, guidance counselor, and teachers in planning your high school program. *The High School Four-Year Plan* in this booklet can be used to plan a tentative program for the remainder of your high school years.

Planning for College and Workplace

Your plan should include courses that will meet the graduation requirements of Rappahannock County Public Schools and prepare you to meet your educational and career goals. Your guidance counselor can assist you in determining your interests, needs, and special talents. Your guidance counselor and the Next Step Coordinator also have up-to-date information about educational opportunities at various colleges, universities, trade, technical and business schools. In addition, your counselor can provide you with information about careers and employment possibilities.

Students wishing to enter the workplace in highly competitive career areas or enter a technical discipline in higher education are encouraged to seek Career and Technical certifications. These certifications require that you take a state board-approved certification or licensing examination and earn a particular score. Certifications are available in Welding, Cosmetology & Barbering, Nursing, Building Trades, Culinary, and certain business courses. To be eligible to take these examinations a student must receive a recommendation from the appropriate CTE teacher. CTE students should consult their counselor and CTE teacher(s) regarding eligibility.

In selecting courses please be aware that employment and college admission opportunities are highly competitive. The rigor of the subjects studied and the quality of academic performance are crucial factors in decisions made by employers and college admission personnel. All students planning to continue their education beyond high school should recognize that educational institutions differ in their requirements for admission. However, a recent survey of a cross-section of Virginia colleges revealed that the rigor of the academic program taken by the student is the most important criterion in the admissions decision.

Highly competitive universities will expect to see courses on your transcript that have Pre-Advanced Placement/Honors, Advanced Placement/Honors and Dual Enrollment designation. These courses may be available in English, history, social science, science, and math. Students wishing to be accepted by a highly competitive college are further encouraged to enroll in higher-level mathematics courses for a minimum of four years.

Organization

The *Program of Studies* booklet is divided into two sections. The first section includes general information about graduation and diploma requirements and other policies that may affect choices you make. We urge you and your parents to read through this information carefully to avoid possible misunderstandings or missed deadlines. The second section consists of a description of each course offered by Rappahannock County High School.

A NOTE FROM THE GUIDANCE DEPARTMENT

Our program endorses an "open enrollment" approach to course selection. This means that we encourage students to challenge themselves by attempting a rigorous course of study. Teacher recommendations, SOL test results, grades earned in prerequisite courses and the counsel of our guidance department will help students and parents make the best decision for each individual. It is also understood that elective courses are scheduled as they fit into the individual's schedule. If you have any questions, please feel free to contact the school counseling center (540) 227-0745.

A NOTE FROM THE PRINCIPAL

It is not recommended that students double up in core courses. Students who wish to do so must receive prior approval from Mr. Swindler.

Virginia High School Graduation Requirements

Standard Diploma

For students entering the ninth grade for the first time in 2018-2019 and beyond

To graduate with a Standard Diploma for students entering the ninth grade for the first time in 2018-2019 and beyond, a student must earn at least 22 standard units of credit and five verified units of credit. Students earn standard credits by successfully completing required and elective courses. Students earn verified credits by successfully completing required courses and passing associated end-of-course SOL tests or other assessments approved by the state Board of Education. *Please note: Your school counselor can tell you which courses are offered by your school to fulfill the requirements for a Standard Diploma.*

| Subject Area | Standard Credits | Verified Credits | Specifications |
|---|------------------|------------------|--|
| English | 4 | 2 | N/A |
| Mathematics | 3 | 1 | Courses completed to satisfy this requirement shall include at least two different course selections from among: algebra I, geometry, algebra functions, and data analysis, algebra II, or other mathematics courses approved by the board to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a mathematics course credit. |
| Laboratory Science | 3 | 1 | Courses completed to satisfy this requirement shall include course selection from at least two different science disciplines: earth sciences, biology, chemistry, or physics, or completion of the sequence of science courses required for the International Baccalaureate Diploma and shall include interdisciplinary courses that incorporate Standards of Learning content from multiple academic areas. The board shall approve courses to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a science course credit. Students who complete a career and technical education program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association, or acquires a professional license in a career and technical education field from the Commonwealth of Virginia may substitute the certification, competency credential, or license for either a laboratory science or history and social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the board as an additional test to verify student achievement. |
| History and Social Sciences | 3 | 1 | Courses completed to satisfy this requirement shall include Virginia and U.S. history, Virginia and U.S. government, and one course in either world history or geography or both. The board shall approve courses to satisfy this requirement. Students who complete a career and technical education program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association, or acquires a professional license in a career and technical education field from the Commonwealth of Virginia may substitute the certification, competency credential, or license for either a laboratory science or history and social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the board as an additional test to verify student achievement. |
| Health and Physical Education | 2 | 0 | N/A |
| World Language, Fine Arts or Career and Technical Education | 2 | 0 | Per the Standards of Quality, credits earned for this requirement shall include one credit in fine or performing arts or career and technical education. Per the Standards of Quality, a computer science course credit earned by students may be considered a career and technical course credit. |
| Economics & Personal Finance | 1 | 0 | N/A |
| Electives | 4 | 0 | Courses to satisfy this requirement shall include at least two sequential electives as required by the Standards of Quality. |

| | | | |
|-------|----|---|-----|
| Total | 22 | 5 | N/A |
|-------|----|---|-----|

Additional Requirements for Graduation

Advanced Placement, Honors, or International Baccalaureate Course or Career and Technical Education Credential - In accordance with the Standards of Quality, students shall either (i) complete an Advanced Placement, honors, or International Baccalaureate course, or (ii) earn a career and technical education credential approved by the board, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to satisfy the standard diploma requirements. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness assessment.

Virtual Course - Students shall successfully complete one virtual course, which may be a non-credit-bearing course or a required or elective credit-bearing course that is offered online.

Training in emergency first aid, cardiopulmonary resuscitation (CPR), and the use of automated external defibrillators (AED) - Students shall be trained in emergency first aid, CPR, and the use of AED, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation. Students with an IEP or 504 Plan that documents that they cannot successfully complete this training shall be granted a waiver from this graduation requirement, as provided in [8VAC20-131-420 B](#).

Demonstration of the five Cs - Students shall acquire and demonstrate foundational skills in critical thinking, creative thinking, collaboration, communication, and citizenship in accordance with the Profile of a Virginia Graduate approved by the board.

For students entering the ninth grade for the first time in 2011-2012 through 2017-2018

To graduate with a Standard Diploma for students who entered the ninth grade for the first time in 2011-2012 through 2017-2018, a student must earn at least 22 standard units of credit and six verified units of credit. Students earn standard credits by successfully completing required and elective courses. Students earn verified credits by successfully completing required courses and passing associated end-of-course SOL tests or other assessments approved by the state Board of Education.

Please note: Your school counselor can tell you which courses are offered by your school to fulfill the requirements for a Standard Diploma.

| Discipline Area | Standard Credits | Verified Credits | Specifications |
|--------------------|------------------|------------------|---|
| English | 4 | 2 | N/A |
| Mathematics | 3 | 1 | Courses completed to satisfy this requirement shall include at least two different course selections from among: Algebra I, Geometry, Algebra, Functions, and Data Analysis, Algebra II, or other mathematics courses above the level of Algebra II. The board shall approve courses to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a mathematics course credit. |
| Laboratory Science | 3 | 1 | <p>Courses completed to satisfy this requirement shall include course selections from at least two different science disciplines: earth sciences, biology, chemistry, or physics, or completion of the sequence of science courses required for the International Baccalaureate Diploma. The board shall approve courses to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a science course credit.</p> <p>Students who complete a career and technical education program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential 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 may substitute the certification, competency credential, or license for (i) the student-selected verified credit and (ii) either a science or history and social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the board as an additional test to verify student achievement.</p> |

| | | | |
|--|----|---|--|
| History & Social Sciences | 3 | 1 | <p>Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, and one course in either world history or geography or both. The board shall approve courses to satisfy this requirement.</p> <p>Students who complete a career and technical education program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential 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 may substitute the certification, competency credential, or license for (i) the student-selected verified credit and (ii) either a science or history and social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the board as an additional test to verify student achievement.</p> |
| Health & Physical Education | 2 | 0 | N/A |
| World Language, Fine Arts or Career and Technical Education | 2 | 0 | Pursuant to § 22.1-253.13:4 of the Code of Virginia, credits earned for this requirement shall include one credit in fine or performing arts or career and technical education. Per the Standards of Quality, a computer science course credit earned by students may be considered a career and technical education course credit. |
| Economics and Personal Finance | 1 | 0 | N/A |
| Electives | 4 | 0 | Courses to satisfy this requirement shall include at least two sequential electives as required by the Standards of Quality. |
| Student Selected Test | 0 | 1 | A student may utilize additional tests for earning verified credit in computer science, technology, career and technical education, economics or other areas as prescribed by the board in 8VAC20-131-110 . |
| Career and Technical Education Credential | 0 | 0 | Students shall earn a career and technical education credential approved by the Board of Education, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to satisfy the standard diploma requirements. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness assessment. |
| Total | 22 | 6 | N/A |

Additional Requirements for Graduation

For students entering the ninth-grade class for the first time in 2013-2014 and beyond: Students shall successfully complete one virtual course, which may be a noncredit-bearing course or a required or elective credit-bearing course that is offered online.

For students entering the ninth-grade class for the first time in 2016-2017 and beyond: Students shall 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. Students with an Individualized Education Program (IEP) or 504 Plan that documents that they cannot successfully complete this training shall be granted a waiver from this graduation requirement, as provided in [8VAC20-131-420](#) B.

Advanced Diploma

For students entering the ninth grade for the first time in 2018-2019 and beyond

To graduate with an Advanced Studies Diploma for students entering the ninth grade for the first time in 2018-2019 and beyond, a student must earn at least 26 standard units of credit and five verified units of credit. Students earn standard credits by successfully completing required and elective courses. Students earn verified credits by successfully completing required courses and passing associated end-of-course SOL tests or other assessments approved by the state Board of Education.

Please note: Your school counselor can tell you which courses are offered by your school to fulfill the requirements for an Advanced Studies Diploma.

| Subject Area | Standard Credits | Verified Credits | Specifications |
|--------------------------------------|------------------|------------------|--|
| English | 4 | 2 | N/A |
| Mathematics | 4 | 1 | Courses completed to satisfy this requirement shall include at least three different course selections from among: algebra I, geometry, algebra II, or other mathematics courses above the level of algebra II. The board shall approve courses to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a mathematics course credit. |
| Laboratory Science | 4 | 1 | Courses completed to satisfy this requirement shall include course selections from at least three different science disciplines from among: earth sciences, biology, chemistry, or physics or completion of the sequence of science courses required for the International Baccalaureate Diploma and shall include interdisciplinary courses that incorporate Standards of Learning content from multiple academic areas. The board shall approve additional courses to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a science course credit. |
| History and Social Sciences | 4 | 1 | Courses completed to satisfy this requirement shall include Virginia and U.S. history, Virginia and U.S. government, and two courses in either world history or geography or both. The board shall approve additional courses to satisfy this requirement. |
| World Language | 3 | 0 | Courses completed to satisfy this requirement shall include three years of one language or two years of two languages. |
| Health and Physical Education | 2 | 0 | N/A |
| Fine Arts or Career and Technical Ed | 1 | 0 | Per the Standards of Quality, a computer science course credit earned by students may be considered a career and technical credit. |
| Economics & Personal Finance | 1 | 0 | N/A |
| Electives | 3 | 0 | Courses to satisfy this requirement shall include at least two sequential electives as required by the Standards of Quality. |
| Total Credits | 26 | 5 | N/A |

Additional Requirements for Graduation

Advanced Placement, Honors, or International Baccalaureate Course or Career and Technical Education Credential - In accordance with the Standards of Quality, students shall either (i) complete an Advanced Placement, honors, or International Baccalaureate course or (ii) earn a career and technical education credential approved by the board, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to satisfy the advanced studies diploma requirements. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness assessment.

Virtual Course - Students shall successfully complete one virtual course, which may be a non-credit-bearing course or a required or elective credit-bearing course that is offered online.

Training in emergency first aid, cardiopulmonary resuscitation (CPR), and the use of automated external defibrillators (AED) - Students shall be trained in emergency first aid, CPR, and the use of AED, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation. Students with an IEP or 504 Plan that documents that they cannot successfully complete this training shall be granted a waiver from this graduation requirement, as provided in [8VAC20-131-420 B](#).

Demonstration of the five Cs - Students shall acquire and demonstrate foundational skills in critical thinking, creative thinking, collaboration, communication, and citizenship in accordance with the Profile of a Virginia Graduate approved by the board.

For students entering the ninth grade for the first time in 2011-2012 through 2017-2018

To graduate with an Advanced Studies Diploma for students entering the ninth grade for the first time in 2011-2012 through 2017-2018, a student must earn at least 26 standard units of credit and at least nine verified units of credit. Students earn standard credits by successfully completing required and elective courses. Students earn verified credits by successfully completing required courses and passing associated end-of-course SOL tests or other assessments approved by the state Board of Education.

Please note: Your school counselor can tell you which courses are offered by your school to fulfill the requirements for an Advanced Studies Diploma.

| Discipline Area | Standard Credits | Verified Credits | Specifications |
|-----------------------------|------------------|------------------|--|
| English | 4 | 2 | N/A |
| Mathematics | 4 | 2 | Courses completed to satisfy this requirement shall include at least three different course selections from among: Algebra I, Geometry, Algebra II, or other mathematics courses above the level of Algebra II. The board shall approve courses to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a mathematics course credit. |
| Laboratory Science | 4 | 2 | Courses completed to satisfy this requirement shall include course selections from at least three different science disciplines from among: earth sciences, biology, chemistry, or physics or completion of the sequence of science courses required for the International Baccalaureate Diploma. The board shall approve additional courses to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a science course credit. |
| History & Social Sciences | 4 | 2 | Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, and two courses in either world history or geography or both. The board shall approve additional courses to satisfy this requirement. |
| World Language | 3 | 0 | Courses completed to satisfy this requirement shall include three years of one language or two years of two languages. |
| Health & Physical Education | 2 | 0 | N/A |

| | | | |
|--|-----------|----------|--|
| Fine Arts or Career & Technical Education | 1 | 0 | Per the Standards of Quality, a computer science course credit earned by students may be considered a career and technical education course credit. |
| Economics and Personal Finance | 1 | 0 | N/A |
| Electives | 3 | 0 | N/A |
| Student Selected Test | 0 | 1 | A student may utilize additional tests for earning verified credit in computer science, technology, career or technical education, economics or other areas as prescribed by the board in 8VAC20-131-110 . |
| Total | 26 | 9 | N/A |

Additional Requirements for Graduation

Virtual Learning - Students shall successfully complete one virtual course, which may be a non credit-bearing course, or may be a course required to earn this diploma that is offered online.

Training in emergency first aid, cardiopulmonary resuscitation (CPR), and the use of automated external defibrillators (AED) - Beginning with first-time ninth-grade students in the 2016–2017 school year, students shall 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. Students with an IEP or 504 Plan that documents that they cannot successfully complete this training shall be granted a waiver from this graduation requirement, as provided in [8VAC20-131-420 B](#).

OTHER DIPLOMAS AND CERTIFICATES

Applied Studies Diploma

A Special Diploma is available to students with disabilities who complete the requirements of their IEP and who do not meet the requirements for other diplomas.

General Education Development Certificate (GED)

A General Education Development Certificate (GED) is available to students who do not qualify for diplomas and wish to earn a high school equivalency credential. This certificate is awarded through the ISAEP Program of the Adult Education department.

Source: Virginia Department of Education



Virginia Standards of Learning Graduation Requirements

A verified unit of credit is awarded for a course in which the student earns a standard unit of credit and achieves a passing score on a corresponding End-of-Course (EOC) Standards of Learning (SOL) test or a substitute test approved by the Virginia Board of Education.

| Virginia Standards of Learning (SOL) Assessments Given in High School | | | |
|--|--------------------|----------------|--|
| English | Mathematics | Science | History and Social Science |
| English: Reading/Literature and Research | Algebra I | Earth Science | World History and Geography to 1500 |
| English: Writing | Geometry | Biology | World History and Geography: 1500 to Present |
| | Algebra II | Chemistry | Virginia and U.S. History |
| | | | Geography |

New DOE Updates on SOLS

Every Student Succeeds Act (ESSA)

In addition to changes under ESSA, the testing requirements as described in the SOA have also changed. As a point of reference, the requirements for testing are included in the *Student Achievement Expectations* section of the SOA at [8VAC20-131-30](#). The requirements for students in kindergarten through grade 8 are:

B. In kindergarten through eighth grade, where the administration of Virginia Assessment Program tests is required by the board, each student shall be expected to take the tests following instruction. Students who are accelerated shall take the test aligned with the highest grade level, following instruction in the content. No student shall take more than one test in any content area in each year, except in the case of expedited retakes as provided for in this section ...

The SOA requirements for testing students who are enrolled in classes with end-of-course tests are: (**Emphasis** added).

E. **Each student in middle and secondary schools shall take all applicable end-of-course SOL tests following course instruction.** The division superintendent shall certify to the Department of Education that the division's policy for dropping courses ensures that students' course schedules are not changed to avoid end-of-course SOL tests. Students who achieve a passing score on an end-of-course SOL test shall be awarded a verified unit of credit in that course in accordance with the provisions of [8VAC20-131-110](#). Students may earn verified units of credit in any courses for which end-of-course SOL tests are available. **Students shall not be required to take an end-of-course SOL test in an academic subject after they have earned the number of verified credits required for that academic content area for graduation, unless such test is necessary in order for the school to meet federal accountability requirements.** Middle and secondary schools may consider the student's end-of-course SOL test score in determining the student's final course grade. However, no student who has failed an end-of-course SOL test but passed the related course shall be prevented from taking any other

Transfer Students

Please visit http://www.doe.virginia.gov/instruction/graduation/student_transfers.shtml for information regarding transfer students.

Diploma Seals

In recognition of exemplary performance, high school graduates who meet certain qualifications will be eligible to receive one or more Virginia Department of Education seals on their diplomas

Governor's Seal

- The Governor's Seal is 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), International Baccalaureate (IB), Cambridge, or dual enrollment courses.

Board of Education Seal

- The Board of Education Seal is awarded to students who complete the requirements for a Standard Diploma or Advanced Studies Diploma with an average grade of "A" beginning with the ninth-grade class of 2006-2007 and beyond.

Board of Education's Career & Technical Education Seal

- The Board of Education's Career & Technical Education Seal is 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. See [The Path to Industry Certification](#) for the current approved licenses and examinations.

Board of Education's Diploma Seal for Science, Technology, Engineering, and Mathematics (STEM)

- The Board of Education's STEM Seal shall be awarded to students who earn either a Standard Diploma or an Advanced Studies Diploma and satisfy all Math and Science requirements for the Advanced Studies diploma with a "B" average or better in all course work, and
 - successfully complete a 50 hour or more work-based learning opportunity in a STEM area, and
 - satisfy all requirements for a Career and Technical Education concentration. A *concentration* is a coherent sequence of two or more state-approved courses as identified in the course listing within the [CTE Administrative Planning Guide](#) , and
 - pass one of the following:
 - a Board of Education CTE STEM-H credential examination, or
 - an examination approved by the Board that confers a college-level credit in a STEM field.

Board of Education's Advanced Mathematics & Technology Seal

(available for students entering high school prior to 2018-2019)

- The Board of Education's Advanced Mathematics & Technology Seal is 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. See [The Path to Industry Certification](#) for the current approved licenses and examinations.

Board of Education's Excellence in Civics Education Seal

- The Board of Education's Excellence in Civics Education Seal is awarded to students who meet each of the following four criteria:
 - Satisfy the requirement to earn a Modified Standard Diploma, a Standard Diploma or an Advanced Studies Diploma
 - Complete Virginia & United States History and Virginia & United States Government courses with a grade of "B" or higher
 - Complete 50 hours of voluntary participation in community service or extracurricular activities, such as volunteering for a charitable or religious organization that provides services to the poor, sick or less fortunate; participating in Boy Scouts, Girl Scouts or similar youth organizations; participating in Junior Reserve Officer Training Corps (JROTC); participating in political campaigns, government internships, Boys State, Girls State or Model General Assembly; and participating in school-sponsored extracurricular activities that have a civics focus. Any student who enlists in the United States military prior to graduation will be deemed to have met this community service requirement.
 - Have good attendance and no disciplinary infractions as determined by local school board policies.

Board of Education's Seal of Biliteracy

- The Board of Education's [Seal of Biliteracy](#) is awarded to students who earn a Board of Education-approved diploma and:
 - Pass all required End-of-Course Assessments in English reading and writing at the proficient or higher level
 - Demonstrate proficiency at the intermediate-mid level or higher in one or more languages other than English as demonstrated through an assessment from a list approved by the Superintendent of Public Instruction. American Sign Language qualifies as a language other than English.

Board of Education's Seal for Excellence in Science and the Environment

- The Board of Education's Seal for Excellence in Science and the Environment is awarded to students who enter the ninth grade for the first time in the 2018-2019 year and thereafter, and meet each of the following criteria:
 - Earn either a Standard or Advanced Studies Diploma
 - Complete at least 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
 - Complete laboratory or field-science research and present that research in a formal, juried setting
 - Complete at least 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.

GOVERNOR'S EARLY COLLEGE SCHOLARS AGREEMENT

The Early College Scholars Agreement is intended to allow and encourage eligible high school seniors to complete requirements for a high school diploma and concurrently earn at least 15 hours of transferable credits toward a college degree. A student who signs an agreement to participate in this program and who graduates from high school and completes all the terms of the agreement will be recognized as an Early College Scholar and receive a Governor's certificate of recognition. Agreement forms are available in the guidance office.

Eligibility for this program requires the following:

- 1) Earning an Advanced Studies Diploma with a Governor's Seal (see pages 5 and 9)
 - a) Earn at least 15 transferable college credits while enrolled in high school. College credits toward completion of this Agreement will be considered earned by:
- 2) Completing dual enrollment/dual credit courses and earning a "C" or better in the courses

- 3) Completing advanced placement courses: Scoring a “3” or higher on the AP examinations or
- 4) Completing college-level course and documenting credit awarded
- 5) Applying and being accepted to a college or university

BLOCK SCHEDULING

To make effective use of time and resources, Rappahannock County High School follows a “4 x 4” block scheduling plan. Block scheduling is an arrangement of the school day into equal core blocks and one flex block. The school year is divided into fall and spring terms, with students taking four different courses each term, or eight courses in a year.

In a four-year high school program with block scheduling, students are able to earn 32 credits, which is more than required for graduation. Students are encouraged to take advantage of the many opportunities to enroll in courses beyond the minimum graduation requirements in order to more fully prepare for further education or work.

Note: Some courses are offered for the whole year. No credit will be awarded to students who withdraw from a year-long class before completing both terms.

HIGH SCHOOL CREDITS EARNED IN 8th Grade

Students who successfully complete the following courses in middle school will receive credit toward a high school diploma:

| | |
|-----------|-----------------|
| Spanish I | Latin I |
| Algebra I | World Geography |

Spanish I and Latin I credits may be applied toward either the elective or foreign language high school diploma requirements. Algebra I credits may be applied to the high school diploma requirements for mathematics credit. World Geography credit may be applied to the high school diploma requirements for history credit.

Students who pass Algebra I, World Geography, and pass the corresponding SOL test will be awarded a verified credit that can be applied toward either the mathematics, history or the student-selected verified credit high school diploma requirements.

Deleting Courses Taken in Middle School from the High School Transcript

High school courses taken in middle school will count toward meeting high school diploma requirements. The grade and credit for high school courses taken in middle school will appear on the high school transcript. High school courses taken in middle school will be included in high school grade point average calculations.

Occasionally, students may not demonstrate a desired degree of success in these courses. In these cases, parents have the option of requesting that the grade be removed from the transcript. However, when a credit-bearing grade is removed from the transcript the high school credit is forfeited. To exercise this option, parents must request, in writing, no more than 30 days following the posting of year-end grades, that the credit-bearing course taken before entering high school be removed from the child’s high school transcript.

GRADE LEVEL STATUS

A student must meet the following criteria to be classified in a high school grade:

- Grade 9 Passed 4 of 5 required middle school courses:
English, Mathematics, Science, History & Social Science, Health & Physical Education
- Grade 10 Earned 6 credits
- Grade 11 Earned 12 credits
- Grade 12 Earned 16 credits (Fourth-year students with 14 or more appropriate credits who are candidates for graduation may be able to be scheduled as seniors. Students will be promoted to the next grade level at the end of the school year. There are no mid-year promotions.)

ADVANCED PLACEMENT (AP) COURSES

Rappahannock County Public Schools offers many opportunities for students to take Advanced Placement courses. The Advanced Placement Program allows students to take college-level courses and exams and to earn college credit or placement while still in high school. AP courses are academically demanding, follow a national curriculum developed by the College Board, and conclude with a national assessment. Most colleges and universities have an AP policy granting incoming students credit, placement, or both on the basis of their AP Exam grades. Rappahannock County Public Schools offer courses to prepare students for the following AP exams:

| Advanced Placement Exams Available to High School Students | | |
|--|--|---------------------------|
| U.S. Government AP | English Language & Composition 11 | Chemistry AP |
| U.S. History AP | English Literature & Composition 12 | |
| | | **See Virtual Virginia AP |

AP courses listed in the Program of Studies will be offered as long as an adequate number of students request the classes, teachers are available, and funds are available.

Each AP course has a corresponding exam that is administered in May. All students who enroll in AP courses will be encouraged to take the exam. The school will be responsible for all AP testing fees.

DUAL ENROLLMENT

Rappahannock County High School provides dual enrollment opportunities in a variety of formats for those students meeting all eligibility requirements. Students can enroll in dual enrollment courses scheduled exclusively for high school students at their home school. Generally these academically challenging courses are taught by high school teachers who are also qualified to teach college level courses. Students can also enroll in day or evening courses scheduled at Lord Fairfax Community College. There are fees associated with earning Dual Enrollment college credit. If interested in participating, please contact the school counseling center (540) 227-0745.

All high school juniors and seniors who are 16 years or older and who are prepared for the demands of college-level coursework are eligible to enroll if they:

- obtain approval from their high school principal or director of guidance;
- have permission of parent or guardian;
- must meet requirements of the College's placement testing process or submit SAT scores of 520 in each area; and
- apply for admission to Lord Fairfax Community College or sponsoring university.

MOUNTAIN VISTA GOVERNOR'S SCHOOL

Mountain Vista Governor's School is an academic year Governor's School for Science, Mathematics, and Technology serving area school divisions including Rappahannock County, for students in grades 10, 11 and 12.

The mission of Mountain Vista Governor's School is to present a research-based, technology-enhanced, integrated program in Mathematics, Science, and the Humanities. The program challenges gifted students to reach their full potential as independent thinkers capable of assuming leadership roles in a constantly changing global society. Rappahannock County students should contact their guidance office for admission requirements and application procedures.

VIRGINIA'S VIRTUAL ADVANCED PLACEMENT SCHOOL

The Virtual Advanced Placement School offers televised and on-line courses in English, government, calculus, statistics, U.S. History, chemistry, biology, Spanish, human geography, economics, psychology, and physics. Rappahannock County Public School students may only take Virtual Advanced Placement courses that are not offered or available to students at the high school they attend. Special situations will be considered on an individual basis at the high school. Course descriptions and additional course offerings can be found www.virtualvirginia.org.

ONLINE EDUCATION REQUIREMENTS:

Online learning for high school students exists through Virtual Virginia and APEX. Students in grades 9-10 are eligible for one online course per school year. Priority enrollment will be given to students in grades 11-12.



WORK PROGRAM—12th GRADERS:

Students in the 12th grade are eligible to participate in a work release program. These students must take at least two academic courses each semester to qualify for work release. Below are the guidelines for the required hours for work:

Two periods of work study-must work at least 15 hours per week. One period of work study-must work at least 7.5 hours per week.

TEACHER’S AIDE—12TH GRADERS ONLY:

A student who wishes to be a teacher’s aide must get approval from the teacher and complete a teacher assistant contract. Students must report to class on time, be prepared to perform the duties of a teacher’s aide and stay in the teacher’s classroom for that assigned period. All teaching assistants must be approved by the administration.

GRADING POLICIES

Grading Scale

Rappahannock County Public Schools use letter grades on report cards and transcripts. The following grading scale equates the grade earned in a class to the equivalent letter grade and point value:

Class Grade, Letter Grade, Grade Points, Honors & Advanced Placement and Dual Enrollment Grade Points

| Class Grade | Letter Grade | Grade Points | Honors | AP/DE Grade Points |
|--------------|--------------|--------------|--------|--------------------|
| 97-100 | A+ | 4.0 | 4.5 | 5.0 |
| 93-96 | A | 4.0 | 4.5 | 5.0 |
| 90-92 | A- | 3.7 | 4.2 | 4.7 |
| 87-89 | B+ | 3.3 | 3.8 | 4.3 |
| 83-86 | B | 3.0 | 3.5 | 4.0 |
| 80-82 | B- | 2.7 | 3.2 | 3.7 |
| 77-79 | C+ | 2.3 | 2.8 | 3.3 |
| 73-76 | C | 2.0 | 2.5 | 3.0 |
| 70-72 | C- | 1.7 | 2.2 | 2.7 |
| 67-69 | D+ | 1.3 | 1.8 | 2.3 |
| 61-66 | D | 1.0 | 1.5 | 2.0 |
| 60 and below | F | 0.0 | 0 | 0.0 |

DROPPING AND ADDING CLASSES

Students may drop or add a course up to the 5th day of each term. After that time, any student who elects to drop a course will receive a W/F (withdraw failing), regardless of the performance in the class. The transcript will read W/F unless the administration approves an exception. The W/F notation will affect the student’s class rank because the class dropped will be counted as a class taken and failed.

ACADEMIC ELIGIBILITY FOR VHSL ACTIVITIES

To be eligible for any Virginia High School League (VHSL) sport or activity, students must meet the following requirements during the term they participate:

1. The student must qualify as a bona fide student under the VHSL guidelines.
2. The student must be enrolled in at least three subjects.
3. The student must have passed at least three subjects for credit the previous term.
4. We strongly encourage parents to purchase health insurance in case of injuries.
5. Submit a completed Athletic Participation/Parent Consent/Physical Examination Form. This form, which must be submitted each school year, permits students to participate the entire year. *Note: Students will*
 - a. *not be permitted to practice or play if the Athletic Director does not have this form on file*

Eighth Grade Coursework



Geography (2210)

This course examines the relationship between social, economic, and geopolitical development across time and place. Course objectives include the study of characteristics and distribution of populations and their effect on physical and human environments using inquiry, practical, and presentation skills. An end-of-course SOL test will be administered.



Physical Science (4125)

This class is an exciting exploration of the physical and chemical principles that govern our daily lives. The goal of the class is to become aware that everything we see, hear, touch, and smell involves physical science. The class will examine the what, why, and how of things around us. Additionally, the class will explore and investigate scientific topics that will help make us become critical thinkers. Much of what we will do involves labs and group work. Students will prepare to take the Science 8 SOL in the spring.



English 8/Reading 8 (1120)

In eighth grade English, all of the essential skills such as sentence formation, mechanics, spelling, paragraph construction and essay writing skills are covered. The students will prepare to take the English Reading & Writing SOLs in the spring.



Math 8 (Pre-Algebra) (3112)

Math 8 consists of reinforcing and learning many skills. These skills include order of operations, using integers with addition, subtraction, multiplication, and division, solving equations and inequalities, factors and fractions, exploring rationals with adding, subtracting, multiplying and dividing patterns, graphing equations and inequalities, proportions and percents, statistics and graphs, probability, and measuring area and volume. All of these skills are needed to pass the Math 8 SOL test.

Algebra I (3130)

Prerequisite: Student must have earned an A or B or pass advance on the SOL for Math 8

Credit: 1

This course is a semester-long high school credited course. Topics covered by this course in algebra include equations and inequalities, linear relations, matrices, polynomials, irrational numbers, quadratic equations, quadratic relations and functions, polynomial functions, rational polynomial expressions, exponential functions, sequences and series, statistics, probability, and trigonometric functions. Students will prepare to take the Algebra I SOL test at the end of the course.

8th Grade Coursework

Spanish I (5510) Credit: 1



Students begin to develop communicative competence in Spanish and expand their understanding of the culture(s) of Spanish-speaking countries. Additionally, students learn to communicate in real-life contexts about topics that are meaningful to them. An emphasis is placed on use of Spanish in the classroom and on use of authentic materials to learn about culture. Grammar is integrated into instruction according to the vocabulary and structures needed in the various situations in which students are required to function. Through this course, students will develop a greater understanding of the structure of their own language and the unique aspects of their own culture.

Latin I (5310): Credit: 1



In Latin I, students begin to develop the ability to comprehend simple written Latin texts. Students learn to use Latin orally, understand oral Latin, and write very simple phrases and sentences. Students also learn about the perspectives, practices, and products of the ancient Romans. Students compare these cultural and historical elements to their own culture and recognize examples of the influence of Greco-Roman civilization in their own world. Through their understanding of the structures and vocabulary of the Latin language, students enhance their understanding of these same linguistic elements of English.



Physical Education 8 (7200)

PE 8 is a course designed to help students understand their fitness level as well as their ability to perform cooperatively in group/team settings. The class also contains a health component that covers the body's systems, skill components, physical fitness, nutrition, at risk behaviors (substance abuse, alcohol), and sexually transmitted diseases.

Business Exploratory 8 (9828)

This required class will explore business at the high school. Students will explore business plan, identifying a target market, marketing principles and major business concepts through grade writing standards through hands-on activities. This class will enhance touch skills for entering numeric, alphabetic, and symbol information on a keyboard and apply these skills to producing personal, educational and professional documents aligned to the Virginia Writing Standards of Learning.



This business course offerings at the high school level, including developing a business plan, identifying a target market, marketing principles and major business concepts through grade writing standards through hands-on activities. This class will support the rigorous 8th grade writing standards through hands-on activities. This class will enhance touch skills for entering numeric, alphabetic, and symbol information on a keyboard and apply these skills to producing personal, educational and professional documents aligned to the Virginia Writing Standards of Learning.

8th Grade Exploratory Possibilities

Computer Science Exploratory 8

In this course, students will begin by learning about the history of computer science and the major innovations that have taken place in this field. Students will then work on problem solving activities before learning about the design process and how to develop a computer program. Students will complete several different programming projects, including designing their own computer games.

Band 8 (9229)

This is a one-semester course.

(Students will meet with the high school band every day first semester.)



The 8th grade band is designed to hone and polish musicianship skills, history, and theory to become better acquainted with the high school students' level of mastery. Although previous band experience is preferred, the band director will allow other students to join on a case-by-case basis. Enrolling in this class entails the concert **and** marching band idioms. The concert band meets during the week and plays vast amounts of past, present, and future repertoire styles. The RCHS Marching band meets for band camp during the summer and have rehearsals after school during football season. The RCHS Marching Band will become a competition band for the first time ever in RCHS history! Be a part of history and have a great time as well! If there are any questions please consult with the band director.

Music Exploratory (9213)

This class is for anyone, including those with musical backgrounds and those who have no experience, either vocally or instrumentally. We will cover reading and writing music on an elemental level, include music appreciation from antiquity through African roots in American music, to jazz and rap. We will write across the curriculum to enhance SOP writing skills with five examples co-graded by the Music and English department. We will also explore the use of music in movies, careers in music, and publishing and copyrighting music.



Manufacturing Technology Exploratory 8 (9826)

Students first study the basic elements of all technology, including processes, energy, information, and people. They explore up to four systems of technology, including construction, transportation, communication, and production/manufacturing. Finally, they relate the impact of technology on society, environment, and culture to future consequences and decisions.



8th Grade Exploratory Possibilities (continued)



Drama Exploratory 8 (1390)

This is a course for any student interested in theater - all levels of experience are welcome. Students will explore all aspects of theater including scene work, improvisation, playwriting, and a small amount of stagecraft and theater history.

Art Exploratory 8 (9115)

This course takes a thematic approach to visual communication and production, art history, judgment and criticism, and aesthetics through which students will develop understanding and appreciation for the visual arts.

Percussion Ensemble Exploratory (9240)

Percussion from the beginning! Students will learn how to read and perform on ALL percussion instruments; snare drum, bass drum, cymbals, mallets, and many more. Students will learn to perform on the percussion instruments both as a member of a full class ensemble, as well as in chamber (small) groups. No prior experience necessary!

- ❖ Please note that all curriculum offerings are subject to change and administration reserves the right to enroll students into SOL preparatory courses depending upon student achievement data.

COURSE DESCRIPTIONS

English

Note: The administration reserves the right to schedule year-long or semester courses depending upon student achievement data and course availability.

1130 ENGLISH 9:

Grade 9

Prerequisite: successful completion of 8th Grade English

Credit: 1

This course emphasizes the development and practical application of reading, writing, listening, and speaking skills. Students will analyze various literary elements through the study of fiction, nonfiction, poetry, drama, and novels. To accompany the literary aspect of the course, William Shakespeare's poetry and plays will be introduced.

In conjunction with literature, the students will create original pieces of writing. The process will include proper grammar usage, introduction of new vocabulary, and elements of successful public speaking. Students will write compositions of various lengths. The writing assignments will include fiction and nonfiction paragraphs, short stories, essays and original poetry. A research project will also be required.

1133 ENGLISH 9 Honors/Pre-AP:

Grade 9

Prerequisite: successful completion of English 8

Credit: 1

Honors English is an advanced level course that will help students succeed in college and rigorous high school courses such as those offered by the Advanced Placement Program. Students will be challenged to expand their reading, writing, and research skills. Students writing will focus on drafting and revising descriptive, narrative, expository, and persuasive essays. Literature study will explore themselves of various authors. Students will learn to analyze fiction beyond the literal level. Searching for abstract meaning the students will apply the ideas studied to their own lives. At the end of this course students will be able to analyze, reason, and understand for themselves; and will be better prepared for the advanced placement tests.

1140 ENGLISH 10:

Grade 10

Prerequisite: successful completion of English 9

Credit: 1

This course is designed to further the student's ability to write clearly and effectively, to study many forms of literature, as well as to review skills in grammar, punctuation, research and documentation. In writing, students will go through the stages of the writing process with an emphasis placed on the five paragraph essay; however, students will also experience writing poetry and short stories. A wide variety of literature will be read in class. An original research project will be required with use of the MLA format and the concomitant research skills. Additionally, test preparatory skills will be introduced prior to the PSAT testing dates.

1142 ENGLISH 10 Honors/Pre-AP:

Grade 10

Prerequisite: successful completion of English 9

Credit: 1

Honors English is an advanced level course that will help students succeed in college and rigorous high school courses such as those offered by the Advanced Placement Program. Students will be challenged to expand their skills in reading, writing, and research. Through the study of literature and use of critical thinking skills, students learn to recognize all universal literary themes and heighten their aesthetic appreciation of well-written works.

Students will be exposed to a wider variety of writing and will spend time on developing a personal writing style. The majority of all writing assignments will complement the student literature. At the end of this course students will be able to analyze, reason, and understand for themselves; and will be better prepared for the advanced placement tests.

1150 ENGLISH 11:

Grade 11

Prerequisite: successful completion of English 10

Credit: 1

This course is a survey of American literature, poetry, and drama. Students will review and demonstrate proper mechanics for writing compositions, and research papers. Classroom work will emphasize development of public speaking skills, both impromptu and formal. End-of-course SOL tests will be given in both Reading and Writing.

1196 ADVANCED PLACEMENT /HONORS ENGLISH LANGUAGE AND COMPOSITION 11:

Grade 11

Prerequisite: summer assignment required (one major work in addition to other readings)

Credit: 1

Advanced Placement English Language and Composition prepares students to take the AP Exam that could qualify them to receive college credit. Students write in a variety of forms—narrative, exploratory, expository and argumentative. Students also write on a variety of subjects from personal experiences to public policies and from popular culture to imaginative literature. Upon completion of this course, students should be able to read complex texts with understanding and write prose that is rich enough and complex enough for mature readers. In addition, students will be responsible for the 11th grade English writing and readings SOLs.

DE 1600 DUAL ENROLLMENT/ HONORS ENGLISH 111/112:

Grades 11

Credit: 1

ENG 111 College Composition I (3 Cr.)

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

ENG 112 College Composition II (3 Cr.) Continues to develop college writing with increased emphasis on critical essays, argumentation and research. Requires students to locate, evaluate, integrate and document sources and effectively edit for style and usage.

Students successfully completing this course with a “C” or better will earn six college credits.

The administration reserves the right to combine Dual Enrollment and Advanced Placement courses.

1160 ENGLISH 12

Grade 12

Prerequisite: successful completion of English 11

Credit: 1

This course is designed to refine the reading, writing, and speaking skills the students have acquired throughout their school careers. The course will prepare the committed students to effectively use their communications skills whether they pursue higher education, attend a vocational school, or enter the work force immediately. The course focuses on the reading and study of literature from the British tradition, the practice of writing critically and persuasively about the literature, and the practice of speaking confidently in front of an audience. This course is based solidly on the SOL for English 12. A major research project is required.

1195 ADVANCED PLACEMENT /HONORS ENGLISH LITERATURE AND COMPOSITION ENGLISH 12:

Grade 12

Prerequisites: summer assignment required.

Credit: 1

This semester advanced placement course engages college-bound seniors in the careful reading and critical analysis of classic and contemporary British, American, and European literature. Through the active reading of a rigorous selection of texts, students will deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Writing assignments focus on the critical analysis of literature, including expository, analytical, and argumentative essays. Toward that end, writing instruction focuses on developing coherence, unity, precision, structure, and stylistic maturity. By the end of this course, students will be able to analyze various elements of Greek, Elizabethan, and Modern drama; analyze various elements of other literary genre, such as epic and lyric poetry, short fiction and non-fiction, Horatian and Juvenalian satire, novels, and essays; and employ a variety of test-taking skills and techniques that will enable them to satisfactorily complete both the multiple-choice and essay portions of the Advanced Placement Literature and Composition Exam.

DE 1602 DUAL ENROLLMENT / HONORS ENGLISH

251/252:

Grades 12

Credit: 1

ENG 251 Survey of World Literature I (3 Cr.)

Examines major works of world literature. Involves critical reading and writing. *Prerequisite: ENG 112.*

ENG 252 Survey of World Literature II (3 Cr.)

Examines major works of world literature. Involves critical reading and writing. *Prerequisite: ENG 112.*
Taken from the Lord Fairfax Community College website.

Students successfully completing this course with a "C" or better will earn six college credits.

ENGLISH ELECTIVES:

1215 PHOTOJOURNALISM/YEARBOOK:

Grades 10-12

Credit: 1

Students in this class are responsible for publishing the school yearbook. Students sell advertisements, write copy and captions, design layout, and do all of their own photography. Students in this course will plan, interpret, and critique visual representation, carefully examining their product for a journalistic publication. Technology, visual, and electronic media are used as tools for learning as students create, clarify, critique, and produce effective visual representations.

1171 CREATIVE WRITING I:

Grades 9-12

Credit: 1

In this course, students will have an opportunity to explore creative writing procedures. All students will examine the writings of their favorite authors to determine areas of appeal and strength which they may incorporate into their own writing. Presentations, including musical interpretations of their poetry, will be encouraged. Students will write original short stories and poetry. They will have ample time to produce a publishable work. An emphasis will be placed on the writing process, and peer editing and evaluation will be a vital part of this course. Each student will share one of his/her poems or short stories on Fridays during Coffee Shop.

1172 CREATIVE WRITING II:

Grades: 10-12

Prerequisite: Successful completion of Creative Writing I

Credit: 1

Students will share their polished writing with their peers and focus on editing and producing the annual literary magazine. Writing prompts will be similar to those utilized in Creative Writing I. Each student will share one of his/her poems or short stories on Fridays during Coffee Shop.

1516 MEDIA AS TEXT :

Grades 9-12

Credit: 1

Communication Theorist Marshall McLuhan once wrote that "the medium is the message," and this course will explore that very notion. Modern society takes on many different forms to communicate to an audience, and students in this course will learn the given properties of a variety of media, and explore the techniques and effectiveness those media have in transmitting messages. Students will focus on a variety of media, including film, graphic novel, print and recorded advertising, visual and performing arts, music, and digital-age communication, will uncover connections between these media and more traditional media, and will examine that media through a variety of means, be they textual analysis, criticism, and research-based presentation work; or digital-age,

Literature of the Bible: The Bible as Literature and as an Influence on Language and Literature"

Grades 10-12

Credit: 1

This course is an academic study of selected narratives, characters, discourses, proverbs, and poetry from the Hebrew Scriptures (Old Testament) and a literary overview of the New Testament. The course demonstrates the literary qualities of the Bible. It also shows clearly how a basic knowledge of the characters, themes, and motifs of the Bible are important for understanding Western literature. An additional feature of the course is the impact translations of the Bible have had on the English language itself

1411 ACTING:
Grades 9-12
Credit: 1

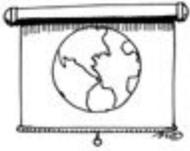
This class will focus on the basic elements of drama: developing inner resources (imagination, observation, and concentration), an expressive voice, and creating characters that are unique and true. This is an interactive class that offers a fun exploration for beginners as well as for those who just want to hone their acting skills. The class includes storytelling, pantomime, spontaneous improvisation, voice production, small group improvisation with specific directives, theatre games, monologues, structured scenes, and script and character analysis. Whether you want to be an actor/actress or just improve your presentation skills, this class can help you build confidence and expertise!



1518 SPEECH AND RHETORIC:
Grades 9-12
Prerequisites: none
Credit: 1

The chief objective of this course is to engage students in the activity of public speaking, constructive argumentation, and development of logical thinking. The class encourages critical inquiry, debate, and reflection upon the fundamental questions of human reason. Students will become familiar with important historical figures and texts that contribute to our intellectual heritage. A further, important objective that will be covered will sharpen students' critical thinking and ability both to analyze and write arguments with clarity and precision. Finally, the course will encourage shared inquiry through good will, careful listening, and thoughtful conversation.

SOCIAL STUDIES



2210 WORLD GEOGRAPHY:

Grade 8-12

Credit: 1

This course examines the relationship between social, economic, and geopolitical development across time and place. Course objectives include the study of characteristics and distribution of populations and their effect on physical and human environments using inquiry, practical, and presentation skills.

2215 WORLD HISTORY I:

Grade 9

Credit: 1

World History I covers major western and non-western cultures up to the year 1500. This is a hands-on course requiring critical thinking skills as well as other techniques employed by historians and social scientists such as the use of primary resources. This course will cover all the required objectives in the Virginia State Resource Guide which is available online on the Virginia Dept. of Education website. Geography and map work are constantly used to enhance and reinforce knowledge. Additionally, an end-of-course SOL test will be administered.

2216 WORLD HISTORY II:

Grade 10

Prerequisite: Successful completion of World History I

Credit: 1

World History II covers major western and non-western cultures from the 1500 to the present. This is a hands-on course requiring critical thinking skills as well as other techniques employed by historians and social scientists such as use of primary resources. This course will cover all the required objectives in the Virginia State Resource Guide which is available online on the Virginia Dept. of Education website. Geography and map work are constantly used to enhance and reinforce knowledge. Additionally, an end-of-course SOL test will be administered.

2360 VIRGINIA & UNITED STATES

HISTORY:

Grade 11

Credit: 1

VA and United States History is a required course for students in the 11th grade. Students will study major themes of US History from the founding of the first colonies to the present. Study and research skills will be reinforced. Students will be expected to master content information and to use this information to draw conclusions and to evaluate the historical significance of important events in US History. Preparation and review for the Virginia SOL test in US History is the focus of this class.

2319 ADVANCED PLACEMENT /HONORS AMERICAN STUDIES (VA & US HISTORY):

Grade 11

Credit: 1

AP History surveys the history of the United States from the colonial period to the present. The course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in US History. This course develops the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay form. A focus of this class is preparation for the AP US History exam given annually in May by the Educational Testing Service. Consideration is also given to preparation and review for the Virginia SOL test. Summer assignments are required.

2440 VIRGINIA & US GOVERNMENT:

Grade 12 Credit: 1

This is a required course for students in the 12th grade. There are state SOL objectives which are covered, which include the following major units of study:

- introduction to government and comparative government (political parties, interest groups and elections)
- constitutional principles
- rights and liberties
- the political process
- policy-making institutions
- state and local governments
- the law and the justice system
- and current issues affecting the U.S. A major goal is to graduate students strongly prepared to be active and informed citizens.

2445 ADVANCED PLACEMENT / HONORS

US GOVERNMENT & POLITICS: Grade 12

Credit: 1

This course is designed to examine in detail the workings of the political system in the United States in preparation for the Advanced Placement Exam, which the student will have the opportunity to take. The course fulfills the requirement for graduation and the Virginia Standards of Learning. Since this is a college level course, the course will require an extensive array of reading in the form of the textbook and primary documents. Overall, the student will have a firm understanding of fundamental constitutional principles, the political culture, and policy-making process on each level of government, the responsibilities of citizenship, and the operation of the United States government. Summer assignments are required prior to starting the class.

SOCIAL STUDIES ELECTIVES:

2995 MYTHOLOGY:

Grades 10-12

Prerequisites: none

Credit: 1

What is myth? This course will examine the origins of myth, and why it has been an important part of societies throughout history. We will focus on Western myth, particularly Greek and Roman, and will cover those of other civilizations. Some themes in this course include the heroic epic (Hercules, the Odyssey) and the creation myth (Chaos, Gaia, Zeus), and we will explore the topics of women in myth and the history of myth.

American History Through War.

Grades: 10-12

Credit 1

The history of the United States is one of a series of conflicts that saw the United States rise from a backwater colony subjugated by a European Empire to a world leader in international affairs. This rags to riches story is incomplete without better known stories such as the American Revolution, the American Civil War, and World War Two as well as the lesser known stories of the Barbary Wars, the Mexican-American War, and the Korean War. This course will teach students the history of the United States through the binoculars of America's military commanders and politicians as well as through the rifle sights of the grunts who fought, suffered, and died on battlefields all around the globe. ***Please note that this course does not meet graduation requirements for History.***

The American Civil War

Grades: 10-12

Credit 1

The American Civil War is an elective for students in the 11th and 12th grades. This course does not have a Standard of Learning (SOL) assessment, however, it incorporates several sections of *U.S. & Virginia History* which does have an SOL requirement. This course analyzes the history of the American Civil War from evolving political ideology and regional sectionalism in the late eighteenth century to the end of the Reconstruction Era in 1877. This course examines the political and socioeconomic issues that led to the war, key battles, military leadership, important pieces of legislation, and a focus on the Commonwealth of Virginia as the epicenter of the 'War Between the States.'



MATHEMATICS

3130 ALGEBRA I:

Grades 8-10

Prerequisite: successful completion of Math 8

Credit: 1

The curriculum is aligned with the SOL and taught in an order based on research and teaching methods. Topics include solving and graphing linear equations and inequalities, quadratic equations, factoring, functions, polynomials, and matrices. Problem solving skills will be reinforced with application problems for each objective. Texas Instrument graphing calculators are an integral part of the instruction. The Algebra I SOL test is administered at the completion of the course.

3131 ALGEBRA I, PART 1:

Grades 9-11

Prerequisite: successful completion of Math 8

Credit: 1

(This course cannot be used to satisfy a Math requirement for graduation. It is considered an elective credit only.)

This is the first part of a two-semester study of Algebra. This course is designed for those students who need additional instruction, time and practice to master the Algebra SOL objectives. Topics will include operations with integers and rational numbers, solving linear equations and inequalities, graphing linear equations and inequalities, and factoring. Texas Instrument graphing calculators will be used

3132 ALGEBRA I, PART 2:

Grades 9-11

Prerequisite: successful completion of Algebra I, Part 1

Credit: 1

This is the second semester of Algebra I. Topics will include linear equations and inequalities, quadratic equations, factoring, functions, polynomials, and matrices. Problem solving skills will be reinforced with application problems for each objective. The Algebra I SOL test is administered at the completion of this course. Texas Instrument graphing calculators are an integral part of the instruction.

3134 ALGEBRA, FUNCTIONS, DATA ANALYSIS: Grades

9-12

Prerequisite: Algebra 1

Credit: 1

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 from real life situations that require the formulation of linear, quadratic, exponential, or logarithmic equations or a system of equations. Through these problems, students will strengthen conceptual understanding in mathematics and further develop connections between algebra and statistics.

3143 GEOMETRY:

Grades 9-12

Prerequisite: C or better in Algebra 1 or Algebra 1 part II or successful completion of Algebra Data Functions and Analysis.

Credit: 1

A strong understanding of basic Algebra is necessary for success. The curriculum is aligned with the SOL and includes angles, congruent triangles, similar triangles, parallel lines, quadrilaterals, polygons, circles, area, surface area, volume, geometric constructions and applications. Students will apply geometric principles while solving problems algebraically and will develop proofs. The Geometry SOL test is administered at the completion of this course.

Note: The Honors mathematics curriculum is infused into the semester long math courses.

3144 GEOMETRY PART 1:

Grades 10–11

Prerequisite: successful completion of Algebra I or Algebra I, Part 2

Credit: 1

This is the first part of a two-semester study of Geometry. This course is designed for those students who need additional instruction, time and practice to master the Geometry SOL objectives. Investigations of lines, planes, congruencies, similarities, parallel lines and angles, perpendicular lines, circles, polygons and three-dimensional figures will be studied. Algebra skills will be reinforced as the students apply geometric principles while solving problems algebraically.

3145 GEOMETRY PART 2:

Grades 10-12

Prerequisite: successful completion of Geometry Part 1

Credit: 1

This is the second semester in the two-part study of Geometry. Topics will include congruent triangles, similar triangles, parallel lines, quadrilaterals, polygons, circles, area, surface area, volume and geometric constructions. Students will apply geometric principles while solving problems algebraically and will develop proofs. The Geometry SOL test is administered at the completion of this course.

3135 ALGEBRA II:

Grades 9-12

Prerequisite: C or better in Algebra 1 or Geometry or successful completion of Algebra Data Functions and Analysis

Credit: 1

This course extends the principles explored in Algebra I and is aligned with the Algebra II SOL objectives. Included are linear functions, radicals, complex number operations, equations with rational expressions, quadratic equations, systems of linear and quadratic equations, conic sections and matrices. Problem solving skills will be reinforced with application problems for each objective. The Algebra II SOL test is administered at the completion of this course. Texas Instrument graphing calculators are an integral part of the instruction.

3190 STATISTICS AND PROBABILITY: Grades 9-12

Prerequisite: successful completion of Algebra II

Credit: 1

This course presents basic concepts and techniques for collecting and analyzing data, drawing conclusions, and making predictions. Students will learn to design an experiment, collect appropriate data, select and use statistical techniques and develop inferences based on the data.

*This course is offered as a dual enrollment option through Lord Fairfax Community College. Students who take this course will learn 6 college credits and complete MTH 241 and 242.

3162 PRECALCULUS:

Grades 11-12

Prerequisite: successful completion of Algebra II

Credit: 1

This course pulls together topics from Algebra I, Algebra II and Geometry. Analytic geometry, theory of equations, logarithms, conic sections, matrices, mathematical modeling and trigonometry are some of the included topics. Strong algebra skills are required along with an understanding of Texas Instrument graphing calculators.

3175 CALCULUS:

Grade: 11-12

Prerequisite: A grade of C or better in Pre- calculus

Credit: 1

who This course is intended for students have an interest, an aptitude, and high achievement in mathematics. Content includes topics of a first calculus course, including functions, limits, differentiation, integration and sequences and series. Both mathematical theory and applications of calculus are emphasized. Calculus is a prerequisite course for AP Calculus.

SCIENCE



4210 EARTH SCIENCE:

Grade 9

Credit: 1

This course is a unique science offering. The following areas will be introduced: Meteorology, Astronomy, Geology and Oceanography. Students will understand world events such as catastrophic earthquakes and hurricanes, weather forecasting, mountain formation, soils, erosion, topography, surface and groundwater protection. The Earth Science end-of-course SOL test will be administered.

4310 BIOLOGY:

Grade 10

Credit: 1

This course includes principles of biology; the study of cell structure, function, regulation and division; genetics; evolution; classification of organisms; the study of monerans, protists and fungi; an in-depth study of animal phyla including body systems, function and dissection; the study of the human body; anatomy and physiology of plants; and principles of ecology. The course is designed primarily for group work in the laboratory, classroom discussions, and fieldwork on the school campus. Students will also be responsible for taking the Biology SOL test.

4410 CHEMISTRY:

Grade 11

Prerequisite: successful completion of Algebra I; enrollment or the completion of Geometry recommended

Credit: 1

This course is needed by students interested in fields such as engineering, the sciences or any health-related career, and is generally recommended for all academic students. Students study the structure and reactions of materials. Laboratory experiments are designed to reinforce theories and concepts developed in classroom discussions. The Chemistry SOL end-of-course test will be administered.

4470 ADVANCED PLACEMENT (AP)

CHEMISTRY:

Grade 11-12

Prerequisite: the successful completion of Chemistry and Algebra II

Credit: 1

This course is designed for qualified students with a strong interest in science, critical thinking, and strong verbal and mathematical ability. A strong emphasis is put on the fact that AP Chemistry is a college level course designed to replace the two semesters of freshman inorganic chemistry, including lab work, thus the pace is fast. Students will need to be motivated and responsible for their own learning. The methodology of the course will include inquiry learning, including lab work comparable to that of college chemistry. All students are encouraged to take the AP Exam in May.



4510 PHYSICS:

Grade 11-12

Prerequisite: successful completion of Chemistry and Algebra II.

Credit: 1

This course is designed to provide a basis for a higher level physics course and to develop an understanding for the basic physics principles. Physics includes topics such as velocity, acceleration, momentum, vectors, electricity, and waves. Physics is generally recommended for all academic students.

4570 ADVANCED PLACEMENT (AP)

PHYSICS:

Grade 11-12

Prerequisite: the successful completion of Algebra II and Physics

Credit: 1

This course is designed for qualified students with a strong interest in science, critical thinking, and strong verbal and mathematical ability. A strong emphasis is put on the fact that AP Physics is a college level course including lab work, thus the pace is fast. Students will need to be motivated and responsible for their own learning. The methodology of the course will include inquiry learning, including lab work comparable to that of college physics. All students are encouraged to take the AP Exam in May.

4330 ANATOMY & PHYSIOLOGY:

Grades 11-12

Prerequisite: successful completion of Biology

Credit: 1

This course is an in-depth study of human anatomy and physiology. Emphasis is placed on the structures and functions of all human body systems. Student work is set up more independently than Biology I. Lab work is emphasized. The class is designed to benefit those students entering a health or biology field or occupation. This course fulfills a laboratory science requirement.

4611 ENVIRONMENTAL SCIENCE:

Grades 11-12

Credit: 1

This is an introductory course for the study of the environment. Topics include air and water pollution, wastewater and its treatment, land use planning, recycling, ecosystems and preservation, and conservation of natural resources. Field trips will be utilized as funding allows. This course fulfills a laboratory science requirement.

4612 HORTICULTURE:

Grades 11-12

Credit: 1

This course of study exposes students to all aspects of gardening and growing plant crops with the purpose of developing skills for entry level jobs and home maintenance. In addition, the horticulture class is expected to help beautify our school and provide fresh student-grown produce for the school cafeterias several times during the semester. By coordinating with experts in the community, the instructors have developed a class which includes guest speakers, field trips, and work-study opportunities at local farms. Units of study include plant structure and function, growing and propagating techniques, pest control, soil testing exploring career opportunities, plant identification and garden design. Organic growing techniques will be emphasized. The class will use the school greenhouse, the raised beds in the school garden, and the hoop house in addition to the classroom. There will be a traditional classroom component involving the use of an introductory horticulture textbook. **This course fulfills a laboratory science requirement.**

WORLD LANGUAGES

5510 SPANISH I:

Grade 8-12

Credit: 1

Students begin to develop communicative competence in Spanish and expand their understanding of the culture(s) of Spanish-speaking countries. Additionally, students learn to communicate in real-life contexts about topics that are meaningful to them. An emphasis is placed on use of Spanish in the classroom and on use of authentic materials to learn about culture. Grammar is integrated into instruction according to the vocabulary and structures needed in the various situations in which students are required to function. Through this course, students will develop a greater understanding of the structure of their own language and the unique aspects of their own culture. Technology is also an important means of accessing authentic information in Spanish and in providing students the opportunity to interact with native Spanish speakers.

5520 SPANISH II:

Grades 9-12

Prerequisite: "C" or better in Spanish I and/or teacher recommendation

Credit: 1

Students continue to develop their communicative competence by interacting orally and in writing with other Spanish speakers, understanding oral and written messages in Spanish, and making oral and written presentations in Spanish. Students will read material on familiar topics and write short, directed compositions. Emphasis continues to be placed on use of Spanish in the classroom as well as on use of authentic materials to learn about Spanish-speaking cultures.

5530 SPANISH III:

Grades 10-12

Prerequisite: "C" or better in Spanish II and/or teacher recommendation

Credit: 1

Through this course, students will continue to develop their communicative competence. Students will communicate on a variety of topics using more complex structures in Spanish and moving from concrete to more abstract concepts. They comprehend the main ideas of the authentic materials that they listen to and read and are able to identify significant details when the topics are familiar. Students develop the ability to discuss in Spanish topics related to historical and contemporary events and issues.

5540 SPANISH IV:

Grades 11-12

Prerequisite: "C" or better in Spanish III and/or teacher recommendation

Credit: 1

In Spanish IV, students continue to develop communicative competence: interacting with other Spanish speakers, understanding oral and written messages in Spanish, and making oral and written presentations in Spanish. They are able to exchange and support opinions on a variety of topics, comprehend spoken and written texts from a variety of authentic sources and use Spanish to access information in other subjects.

5310 LATIN I: Grades**8-12****Credit: 1**

In Latin I, students begin to develop the ability to comprehend simple written Latin texts. Students learn to use Latin orally, understand oral Latin, and write very simple phrases and sentences. Students also learn about the perspectives, practices, and products of the ancient Romans. Students compare these cultural and historical elements to their own culture and recognize examples of the influence of Greco-Roman civilization in their own world. Through their understanding of the structures and vocabulary of the Latin language, students enhance their understanding of these same linguistic elements of English.

5320 LATIN II:**Grades 9-12****Prerequisite: "C" or better in Latin I and/or teacher recommendation****Credit: 1**

In Latin II, students develop the ability to comprehend written Latin texts with more complex linguistic structures. Students understand adapted and/or authentic Latin from original sources. To support the development of reading skills, students continue to use and understand some oral Latin and write simple phrases and sentences. Students also learn about the perspectives, practices, and products of the ancient Romans as reflected in areas such as Roman architecture, art, and history. They also compare the effects of the geography of the ancient Roman world and that of the United States.

5330 LATIN III:**Credit: 1****Prerequisite: "C" or better in Latin II and/or teacher recommendation****Grades 10-12**

In Latin III, students develop the ability to comprehend authentic Latin texts with complex linguistic structures. Students expand their knowledge of archaeological evidence, art, and literature as reflections of Greco-Roman perspectives and practices. They examine the Roman political system, the multicultural aspects of the Roman Empire, and the role of geography in military history.

5340 LATIN IV:**Grades 11-12****Prerequisite: "C" or better in Latin III and/or teacher recommendation****Credit: 1**

In Latin IV, students interpret and analyze authentic Latin in a variety of genres. Students analyze the effects of stylistic features, such as figures of speech, word choice, and meter, on an author's work. They expand their knowledge of the perspectives and practices of Greco-Roman civilization by examining its philosophy, religion, mythology, and standards of personal conduct. Students also discuss the contributions of the Romans to modern law, government, art, and architecture.

PHYSICAL EDUCATION-
HEALTH & DRIVER'S
EDUCATION



7300 PHYSICAL EDUCATION 9 & HEALTH:

Grade 9

All 9th grade students are required to take this course

Credit: 1

This course is a continuation of development skills in flag football, aerobics, soccer, basketball, volleyball, softball, and track and field. Health is offered in conjunction with Physical Education 9. It includes instruction on nutrition/diet, first aid and safety education.

7405 PHYSICAL EDUCATION 10 & DRIVER'S EDUCATION:

Grade 10

Prerequisite: successful completion of PE 9 & Health

All 10th grade students who have passed PE 9 are required to take this course.

Credit: 1

This course is a continuation of all 9th grade activities with emphasis being put on finer techniques and skills. Driver's Education and Traffic Safety are offered in conjunction with Physical Education 10. This includes the classroom portion. The classroom phase attempts to meet the objectives of developing both a responsible and competent driver.

7640 NUTRITION AND PERSONAL FITNESS:

Grades 11-12

Prerequisite: successful completion of PE 9 and PE10

Credit: 1

This Nutrition and Personal Fitness course will prepare students with the knowledge and skills to lead a healthy lifestyle through nutrition and physical activity. The purpose of this course is to acquire knowledge of physical fitness concepts, understand the influence of lifestyle on health and fitness, and begin to develop an optimal level of fitness. The fitness section of the class will enable students to better develop their cardiovascular system, muscular structure, and overall agility through weight training and plyometric. The nutrition section of the course will provide an understanding of the role nutrients play in our overall health through their digestion, absorption, and metabolism within the body. Students will explore application skills including food preparation, food safety, menu planning, and overall health communication.

7641 WEIGHT TRAINING:

Grades : 9-12

Strength and Conditioning will enable students to better develop their cardiovascular system, muscular structure, and overall agility through weight training and plyometrics.

16 Career Clusters

| Career Cluster Name | Description |
|---|---|
|  | <p>The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.</p> |
|  | <p>Careers in designing, planning, managing, building and maintaining the built environment.</p> |
|  | <p>Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.</p> |
|  | <p>Business, Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.</p> |
|  | <p>Planning, managing and providing education and training services, and related learning support services.</p> |
|  | <p>Planning, services for financial and investment planning, banking, insurance, and business financial management.</p> |
|  | <p>Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.</p> |
|  | <p>Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.</p> |

| Career Cluster Name | Description |
|---|--|
|  | <p>Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.</p> |
|  | <p>Preparing individuals for employment in career pathways that relate to families and human needs.</p> |
|  | <p>Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.</p> |
|  | <p>Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.</p> |
|  | <p>Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering</p> |
|  | <p>Planning, managing, and performing marketing activities to reach organizational objectives.</p> |
|  | <p>Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.</p> |
|  | <p>Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.</p> |

AGRICULTURE, FOOD, & NATURAL RESOURCE

Horticulture
Environmental Science

ARCHITECTURE & CONSTRUCTION

Construction Technology
Building Management I
Building Management II Welding I
Welding II

ARTS, A/V TECHNOLOGY & COMMUNICATION

Art I Art II Art III Drama
Newspaper Creative Writing Imaging
Technology

BUSINESS, MANAGEMENT, & ADMINISTRATION

Business Management Business Law
Accounting Entrepreneurship
Principles of Business & Marketing

FINANCE

Business Management Economics &
Personal Finance Accounting

GOVERNMENT & PUBLIC ADMINISTRATION

US Government
AP US Government

HEALTH SCIENCES

Nursing I
Nursing II

HOSPITALITY & TOURISM

Culinary I
Culinary II

HUMAN SERVICES

Psychology
Cosmetology I & II
Barbering I & II

INFORMATION & TECHNOLOGY

Applications

MANUFACTURING

Manufacturing Technology
Building Management I
Building Management II

MARKETING, SALES, & SERVICE

Entrepreneurship
Principles of Business & Marketing
Computer Applications

SCIENCE, TECHNOLOGY, ENGINEERING, & MATHEMATICS

Any and all Science or Math courses

TRANSPORTATION, DISTRIBUTION, & LOGISTICS

Power and Transportation
Energy and Power
Small Engine Technologies
Agricultural Mechanic

CAREER & TECHNICAL

EDUCATION COURSE

OFFERINGS

BUSINESS



6131 BUSINESS LAW:

Grades 9-12

Credit: 1

Business Law is a course where students will examine the American legal system. Students will examine laws that affect minors, employers/employees, families, and consumers. Students will describe the court system and how a case goes to trial, distinguish between torts and crimes, and analyze the elements of a contract. Students explore economic and social concepts as they relate to legal principles and to business and personal law. Student leadership skills may be enhanced by participation in school-based or virtual enterprises, job shadowing, and/or Skills USA.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

6115 PRINCIPLES OF BUSINESS & MARKETING

Grades 9-12

Credit: 1

This course is for any student who wishes to pursue a career in business and/or marketing after college or high school. College-bound students planning to major in business administration, accounting, management, marketing, or finance will find this a valuable course, as well as those students who plan to enter the world of work. Students explore the roles of business and marketing in the free enterprise system and the global economy. They study how the American economy operates and prepare to make decisions as consumers, wage earners, and citizens. The course content includes banking, credit, insurance, business and marketing careers, and employability skills. Student leadership skills may be enhanced by participation in school-based or virtual enterprises, job shadowing, and/or Skills USA.

RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

6611 COMPUTER APPLICATIONS: Grades 9-12

Credit: 1

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. Student leadership skills may be enhanced by participation in school-based or virtual enterprises, job shadowing, and/or Skills USA.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

6320 ACCOUNTING:

Grades 10-12

Prerequisite: completion of Computer Applications recommended, but not required
Credit: 1

This course is for students who may have an interest in accounting or perhaps business. It is designed to help students understand the procedures that are followed in order to prepare and analyze financial statements. Students will look at a variety of businesses, such as proprietorships and partnerships, and a service versus a merchandising business. Hands-on experience, such as using forms and preparing reports as an accountant, will be stressed. Various careers in business will be explored. Student leadership skills may be enhanced by participation in school-based or virtual enterprises, job shadowing, and/or Skills USA.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

6302 Cybersecurity Fundamentals

Grades 9-12

Credit: 1

Students will explore cybersecurity careers, ethics as it relates to cybersecurity and examine concepts with computer networks as a foundational element of cybersecurity. They will explore cybersecurity implications for current and emerging technologies

9093 ENTREPRENEURSHIP: Grades 9-12

Credit: 1

This course introduces the various steps considered necessary when going into business. Topics that are discussed include, but are not limited to the following: establishing a business plan, finances and administration, marketing strategies, and managing business operations. Student leadership skills may be enhanced by participation in school-based or virtual enterprises, job shadowing, and/or Skills USA.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

6135 BUSINESS MANAGEMENT:

Grades 9-12

Credit: 1

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. Student leadership skills may be enhanced by participation in school-based or virtual enterprises, job shadowing, and/or Skills USA.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

9840 SERVICE LEARNING:

Grades 12

Credit: 1

Service Learning is a 1 credit elective that will offer students the opportunity to serve a non-profit organization in our community. It is designed to involve students in authentic and meaningful service to this community. Course hours will be split between classroom assignments and work-site hours. Students will be paired with a non-profit worksite that matches, as closely as possible, their interests and abilities. Students will document their experiences through journal writings, photographs and evaluations and complete a community service project to benefit the organization. This class is designed for responsible students with a great work ethic, positive attitude and excellent school attendance. Volunteer opportunities may vary depending on whether the student drives or requires school transportation to and from the work site.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

6120 ECONOMICS & PERSONAL FINANCE LITERACY:

Grades 11-12

Credit: 1

Students will 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. Additionally, students will develop financial literacy skills and an understanding of economic principles as a basis for responsible citizenship and career success.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

6630 DESIGN, MULTIMEDIA AND WEB TECHNOLOGIES

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.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

TECHNOLOGY

8433 MATERIALS & PROCESSING:

Grades 9-12

Credit: 1

Students focus on industrial/technical materials and processes as they fabricate useable products and conduct experiments. Learning experiences include career analysis, testing and processing metals, plastics, woods, ceramics, and composite materials. This course is recommended for students interested in technical careers and others wishing to improve their consumer knowledge and technological literacy.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

8425 MANUFACTURING TECHNOLOGY I

Grades 9-12

Prerequisite: None

Credit: 1

This course is the second high school course in Production Technology and builds on the first course; Materials Process Technology. Emphasis in this course is placed on industrial/technical processes and materials and how these processes/materials are used to design and produce products. Also, a student-operated manufacturing enterprise will be a major component of the course as well as management, marketing, research and development, industrial relations, and financial affairs. This course continues the improvement of consumer knowledge, technological literacy, and technical careers.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

8427 Manufacturing Technology II

Grades 9-12

Credit: 1

Students develop an in-depth understanding of automaton and its applications in manufacturing. Activities center on flexible manufacturing processes and computer integrated manufacturing (CIM). Students work in teams to solve complex interdisciplinary problems that stem from the major systems in automated manufacturing.

8445 POWER & TRANSPORTATION

Grades: 9-12

Credit: 1

Students survey the many broad sources of energy and power used in power and transportation systems. Instruction in this single-period course includes ways that (1) energy is converted to power; (2) power is transmitted and controlled; and (3) power is used through mechanical, fluid, and electrical devices. Students explore career opportunities and build

projects, conduct experiments, and repair mechanical devices such as small engines, and electrical motors. Projects may include: SVO (straight vegetable oil) conversion of a diesel engine, produce bio-diesel from waste oil (French fryer grease) B5, B10, B20 100%. A future project is to plant soybeans, harvest, press, and make bio-diesel. Other projects may include creating an electric powered go-cart, electric powered car in the future, a hydraulic robot, a possible log splitter, E85 production, conversion for a tractor, a wind energy-windmill, a solar- electric powered vehicle, fuel cells, pneumatics, nuclear energy, and geothermal energy.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

8431 CONSTRUCTION TECHNOLOGY:

Grades 9-12

Prerequisite: None

In this course, students learn about structures and the related industries to investigate such jobs as architects, civil engineers, carpenters, electricians, plumbers, surveyors, contractors, masons, and construction and environmental management. Students build and test scale-model structures, plan site preparation, design structures and infrastructure projects, and utilize computer software and other appropriate tools used in such industries.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

8448 ENERGY & POWER:

Grades 9-12

Prerequisite: None

In this course, students learn about the application of power and energy systems to common power devices and transportation vehicles and apply theory to the practical servicing of common machines such as small gasoline engines.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

8021 Small Engine Repair I

Grades 9-12

Credit: 1

This course offers an intensive study of the operation, maintenance, and repair of small gasoline engines. Instructional topics include principles of operation of internal combustion engines, repair, and service procedures, and disassembly, overhaul, and reassembly. Instruction may also include the operation of two-cycle and four cycle engines commonly found on

lawn mowers, garden tractors, snow blowers, rotary tillers, chainsaws, and other equipment. The course emphasizes leadership activities and opportunities to participate in FFA functions.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

8725 SMALL ENGINE TECHNOLOGIES:

Grades 9-12

Credit: 1

In small engine class, students will become familiar with the operation, maintenance, and the simple repair of small gasoline engines and related equipment. The use of tools and equipment used in the small engine repairs will be demonstrated. All safety information will be taught. Safety glasses must be used at all times.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

8672 WELDING I:

Grades 9-12

Credit: 1

This course leads to AWS (American Welding Society) certification and at least an entry-level job. The processes of Mig, Tig, Stick and oxyacetylene will be taught in depth.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

8673 WELDING II:

Grades 10-12

Prerequisite: successful completion of Welding I

Credit: 1

This course provides an in depth study of all welding processes and an opportunity to take an American Welding Society certification entry-level test or all position test. Practical skills that are used in repair and projects, using Stick, Mig, Tig and Oxyacetylene will be offered.

*This course may be offered as a dual enrollment course. Students may dual enroll this course through Lord Fairfax Community College and earn 3 college credits for Welding 120.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

8034 HORTICULTURE SCIENCE:

Grades 9-12

Credit: 1

In this course, students develop the necessary knowledge, skills, habits, and attitudes for entry-level employment and advancement in areas such as floriculture, landscape design, greenhouse operation, nursery plant production, and turf management. They 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. * CTE/Agriculture course, this course does not count as a science course.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

8275 CULINARY ARTS I:

Grades 10-12

Credit: 2 **This course is a year-long (two-semester) class.** This course includes information concerning basic

nutrition, safety and sanitation, use of equipment, budgeting, and meal planning as part of the art of cooking and catering. Students will be expected to participate in numerous activities regarding planning, preparation, and presentation of culinary food. This is a hands-on, vocational class and students are expected to adhere to all sanitation, safety and employment guidelines they would in a restaurant setting.

Students practice managerial, production, and service skills used in government, commercial, or independently owned institutional food establishments and related food industry occupations. Students plan, select, store, purchase, prepare, and serve food and food products. Critical thinking, practical problem solving, and entrepreneurship opportunities within the field of culinary arts are emphasized. Teachers highlight the basic skills of mathematics, science, and communication when appropriate in content. The cooperative education method is available for this course. Students combine classroom instruction and supervised preparation.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

8276 CULINARY ARTS II:

Grades 11-12

Credit: 2

This course is a year-long (two-semester) class.

Expansion and further mastery of the culinary techniques presented in Culinary I. Sanitation, Nutrition, Culinary math and various styles of service will be presented. Students will be required to take the ServSafe exam, a nationally-recognized food service certification, as well as the VDOE mandated NOCTI exam. Students will explore traditional cuisines from around the world and will apply the cooking techniques learned in Culinary I. This is a hands-on, vocational class and students are expected to adhere to all sanitation, safety and employment guidelines they would in a restaurant setting.

Students prepare for occupations such as chef/cook, baker/pastry helper, pastry decorator, hospitality worker, dietetic aide/assistant, food demonstrator, and entrepreneur. Critical thinking, practical problem solving, and entrepreneurship opportunities within the field of culinary arts are emphasized. Teachers highlight the basic skills of mathematics, science, and communication when appropriate in content.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

8672 AUTOMECHANIC TECHNOLOGY I 8506

Grades 9-12

Credit: 1

Students in the Automotive Program develop a skill set that is in high demand. Students start out learning the basics. At the end of two years, student are familiar with the automobile and well versed in the followings systems.

Engine Repair

Engine Performance

Electrical and Electronics

Heating and Air Conditioning

Brakes

Steering and Suspension

All of these systems are broken down into subsystems and are studies in an approach that follow this outline:

Step 1: Know

Step 2: See

Step 3: Do

Step 4: Prove

What does this mean? Automotive students know the theory; see the skills modeled; do the skills; and are prepared to take the certification test.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

This course is taught at Page County Technical Center. Enrollment is limited

8360 NURSING ASSISTANT I (Taken in same year as Nursing Assistant II)
Grades 11-12
Credit: 1

Nurse Aide I, offered as an occupational preparation course beginning at the 11th-grade level, emphasizes the study of nursing occupations as related to the health care system. Students study normal growth and development, simple body structure and function, and medical terminology and are introduced to microbes and disease. Students receive elementary skill training in patient-nursing assistant relationships; taking and recording of vital signs; cardiopulmonary resuscitation; and bathing, feeding, dressing, and transporting of patients in hospitals and nursing homes. Limited on-the job instruction in nursing homes and hospitals is part of the course. This course can be used as an introduction to practical nursing or to prepare the student for Nurse Aide II so that all competences for a certified nursing assistant are met.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

8362 NURSING ASSISTANT II
Grades 11-12
Credit: 1

Prerequisite: completion of Nursing Assistant I with a C average.

Nurse Aide II is an occupational preparation course, emphasizing advanced skill training in areas such as catheter care, range of motion, bowel and bladder training, care of the dying, selected procedures for maternal and infant care, and admission and discharge procedures. Students learn diseases and body systems as related to advanced clinical care of the acute medical-surgical patient, the chronically ill, and the elderly. On-the-job instruction in a licensed nursing home is part of the course. Upon successful completion of the nurse aide program, the student is eligible to take the nurse aide certification exam that leads to employment as a certified nurse aide in hospitals and nursing homes.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

8333 EMERGENCY MEDICAL TECHNICIAN (EMT)

Grades: 11-12
2 CREDITS
(Year-long course taught during 1st block)

In this course, students become skilled in identifying and managing emergencies such as bleeding control, fracture stabilization, airway obstruction, cardiac arrest as well as medical emergencies such as seizure, stroke, allergic reaction and diabetic conditions. Instruction emphasizes proper assessment and patient care skills, and the use of common EMS equipment. Students are evaluated with both written and practical skills testing throughout the course. Supervised clinical training with patient care experiences are part of the program. Students who successfully complete the course requirements are eligible to take the EMT State certification exam administered by the Office of EMS (a division of the Virginia Department of Health). Students will be charged a fee to cover the cost of materials. Students must be able to attend clinical rotations outside of school hours. This course is year-long due to course requirements from the Virginia Department of Health. All students will be required to attend an information session at the beginning of the school year with their parent or guardian.

 RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

This course is taught at Madison County High School. Enrollment is limited

8527 COSMETOLOGY I

Grades 11-12

Credits: 4

Prerequisite: GPA 2.0

In this introductory course, students study hair, skin, and nails and their related care. Students are grounded in theory as they prepare to practice procedures in a clinical lab setting or classroom, using mannequins for manipulative skill practice. The first-year course emphasizes personal safety, professionalism, and sanitation of equipment and facilities. Students develop skills in shampooing and conditioning hair as well as styling and cutting hair. Students also receive an introduction to manicure and pedicure procedures. This is a two-year program requiring year-long double blocks for two years.



RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

This course is taught at Madison County High School. Enrollment is limited.

8528 COSMETOLOGY II

Grade: 12

Credits: 4

Prerequisite: GPA 2.0 and completion of Cosmetology I

In this advanced course, students build on their theoretical foundation in cosmetology and increase proficiency in hair cutting and styling on live models with attention to professionalism, client consultation, safety, and sanitation. Students are trained in safety and chemical processes related to permanent waves, relaxing, soft-curling, lightening, and coloring hair. They also develop artistic skills with artificial hair. In addition, students learn to care for skin, hands, and feet, developing expertise in providing facials, manicures, and pedicures. A business management unit focuses on managing the salon. Competency completions prepare the student for the Virginia state-licensing exam.



RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

This course is taught at Madison County High School. Enrollment is limited.

8740 BARBERING I

Grades 11-12

Credits: 4

Prerequisite: GPA 2.0

Barbering is the study of hair, skin and their related care. Students study and prepare in a clinical lab setting, using mannequins and live models for manipulative practice. The program emphasizes safety and sanitation, communication, and management skills. Related areas of study include psychology, ethics, and professional image. This is a two-year program requiring year-long double blocks for two years.



RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

This course is taught at Madison County High School. Enrollment is limited.

8741 BARBERING II Grade:

12

Credits: 4

Prerequisite: GPA 2.0 and completion of Barbering I

Students apply their knowledge of barbering skills in a clinical lab setting, using mannequins and live models for manipulative practice. The program emphasizes safety and sanitation, communication skills, and management of a barber shop or beauty salon. Related areas of study include psychology, ethics, and professional image. Competency completions prepare the students for the Virginia state licensing exam.



RCPS ensures equal access to all CTE courses; accessibility accommodations will be provided, if needed.

This course is taught at Madison County High School. Enrollment is limited

FINE ARTS

9120 ART I: **Grades 9-12** **Credit: 1**

Art I emphasizes the development of abilities to recognize visual arts content, concepts, and skills to create, discuss, and understand original works of art. This course takes a thematic approach to visual communication and production, art history, judgment and criticism, and aesthetics through which students will develop understanding and appreciation for the visual arts.

9130 ART II INTERMEDIATE: **Grades 10-12** **Prerequisite: successful completion of Art I** **Credit: 1**

Art II is designed to help students extend and refine abilities to investigate and respond to visual arts. Standards emphasize the importance of content, concepts, and skills involved in the creation of original works of art. This course introduces a chronological approach to visual communication and production, art history, judgment and criticism, and aesthetics that enhance student understanding of the ways in which art functions in a multicultural society.

9140 ART III ADVANCED: Grades 11-12

Credit: 1

Art III emphasizes the development of abilities to organize and analyze visual arts content, concepts, and skills in creating works of art. The focus on art history, critical evaluation, and aesthetics is increased and includes cultural and stylistic issues and creative problem solving.

9191 PHOTOGRAPHIC ART:

Grades 9-12

Credit: 1

This introductory course deals with digital photography and teaches basic camera handling. Four areas of instruction will be emphasized including, how cameras work, how composition works, how lighting works, and how to use photo editing software. Students will learn how to control light to produce an aesthetically pleasing image. Composition and the elements and principles of art are introduced. In addition, students will be taking photos to be used in the yearbook

05165 Craft Design

Grades 9-12

Credit: 1

Craft Design is a hands-on course designed to give students 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.. Examples of the skills that may be developed include decoupage, charted designs, basketry, weaving, quilting, knitting, crocheting, paper craft, bookbinding, stamping, etc

9260 CHORUS:

Grades 9-12

Credit: 1

This course is a performance driven class in which students will learn to read music and sing a variety of literature using Virginia SOL guidelines. Students will experience varying musical styles ranging from classical to modern pop music. This course may include evening and off campus performances depending on student enrollment and ability.

9250 JAZZ ENSEMBLE:

Grades 9-12

Credit: 1

This course is designed to develop students' "jazz-ology". Membership in the jazz band is determined by audition. Performances include school functions, community assemblies, adjudicated festivals, and a trip. This class will meet 2-3 times a week prior to the start of the school day in order to alleviate scheduling conflicts with other extracurricular activities. If there are any questions, please consult with the band director.

9222 MUSIC APPRECIATION

Grades 9-12

Prerequisite: none

Credit: 1

This is an introductory course designed to provide a basic orientation to the enjoyment and understanding of music. Students will study the basic rudiments of music—notation, pitch, rhythm, melody, and harmony, and how these elements relate to music. Possibilities exist for students to explore their own areas of musical interest including guitar, piano, drums, and other instruments. This is an exciting course open to all students who love music.

9234 BAND:

Grades 9-12

Credits: 2

This course is a year-long (two-semester) class.

Instrumental music is offered to all 9th - 12th grade students. Although previous band experience is preferred, the band director will allow other students to join on a case-by-case basis. Enrolling in this class entails both the concert **and** marching band idioms. The concert band meets during the week and plays vast amounts of past, present, and future repertoire styles. The RCHS Marching band meets for band camp during the summer and has rehearsals after school during football season. The RCHS Marching Band will become a competition band for the first time ever in RCHS history! Be a part of history and have a great time as well! If there are any questions, please consult with the band director.

9245: GUITAR:

Grades 9-12

Credit: 1

This class will focus on learning basic skills of playing acoustic, classical guitar. Other genres of music and its uses of guitar will be discussed later in the semester. Students will learn how to play chords, notes, and scales. Performing as a guitar ensemble will be one of the goals. Research on classical guitarists may also be included as one of the class projects. Each student will be assigned a guitar to use for class, but having your own would be good so you could get extra practice at home. No prior experience with music or guitar is needed for any student to join the class.

9255: PIANO

Grades 9-12

Credit: 1

This class will allow students to learn basic skills to play the piano. The piano lab set-up will allow students to work at their own pace and get a lot of one-on-one attention from the instructor. While not working with the instructor, students will have time to practice. Students taking this class must be self-motivated and be able to work independently. No prior experience with piano or music is necessary to join the Piano Class.

