## P U B LIC S C H O O L S

Middle and High School
Course of Study Guide
2023-2024

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## SECONDARY COURSE OF STUDY

The Secondary Course of Study Guide is written for students and parents to outline general and specific information regarding curriculum offerings and services at the middle and high schools. The course offerings, including prerequisites and descriptions, are listed by curriculum area.

Your student's school counselor will be involved in the scheduling process to ensure that graduation requirements and testing needs for graduation and entrance into post-secondary options are complete. The scheduling of all classes listed in this guide is influenced by minimum enrollment requirements ( 15 students per class) and the availability of certified teachers.

## PROMOTION REQUIREMENTS

Students in grades 7-8 are expected to satisfactorily pass English, mathematics, science, and social studies at their present grade level to be promoted to the next grade.

Students in grades 9-12 are expected to pass 5 credits to be classified as a tenth grader; 10 credits to be classified as an eleventh grader; and 15 credits to be classified as a twelfth grader.

## PROGRAM OF STUDIES

Aside from the required subjects, each student's program of studies may be selected to fit one's individual preferences. Any program of studies may lead to college admission providing the student selects those subjects, which meet the entrance requirements of the chosen college. College entrance requirements may be obtained from the high school counseling offices or from the student's prospective college websites.

The Portsmouth Public School division offers three different types of diplomas: a standard diploma, an advanced studies diploma, and an applied studies diploma.

In planning a high school program, students and parents should take into consideration (1) course loads, (2) sequence and levels of courses, and (3) summer school and distance learning opportunities.

## SEQUENCE AND LEVEL OF COURSES

Courses should be taken in their proper sequence. For example, students will not be allowed to take English 10, until they have passed English 9. This means that students may not take English 9 and English 10 simultaneously. The same rule holds true for all subjects. The proper sequence of courses is provided in the section on Course Descriptions.

Many courses are offered at the Average, Honors, Dual Enrollment (DE) and Advanced Placement (AP) levels. Honors courses are weighted 0.5 and DE and AP Courses 1.0 towards a student's GPA. Students should challenge themselves to attempt rigorous coursework throughout their high school career.

## MINIMUM GRADUATION REQUIREMENTS

The graduation requirements for Portsmouth Public Schools shall meet the requirements of the Code of Virginia and the rules and regulations of the State Board of Education, including passing the appropriate SOL tests. To graduate from high school, a student shall meet the minimum requirements as prescribed by the Portsmouth School Board. Students who are graduating from a secondary school and do not intend to continue their education shall have identifiable marketable skills.

To graduate from a Portsmouth high school, a student must:

- meet the established criteria on the high school SOL criterion referenced tests;
- take coursework for credits as indicated in the program of studies.

Diploma requirements are subject to change as approved by the Virginia Department of Education. The changes are effective with the entering ninth grade class of a particular year.

Standard Diploma Requirements for Students Entering the $9^{\text {th }}$ Grade in 2018-2019 and Beyond

| Subject Area | Units of <br> Credit | Verified <br> Credit | Specifications <br> English $4^{\text {Mathematics }}$ |
| :--- | :--- | :--- | :--- |
| Laboratory Science | 3 | 1 | Courses completed to satisfy this requirement <br> shall include at least two different course <br> selections from among: Algebra I, Geometry, <br> Algebra Functions and Data Analysis, Algebra <br> II, or other mathematics courses approved by <br> the board to satisfy this requirement. |
| Listory and Social <br> Sciences | 3 | 1 | Courses completed to satisfy this requirement <br> shall include course selection from at least two <br> different science disciplines: Earth Science, <br> Biology, Chemistry, or Physics. |
| Health and Physical <br> Education | 2 | 0 | Courses completed to satisfy this requirement <br> shall include Virginia and U.S. History, <br> Virginia and U.S. Government, and one course <br> in either World History or Geography or both. |
| World Language, <br> Fine Arts or Career <br> and Technical <br> Education | 2 | 0 | N/A <br> Per the Standards of Quality, credits earned for <br> this requirement shall include one credit in fine <br> or performing arts or career and technical <br> education. World Language may not be used for <br> both credits. |
| Economics and <br> Personal Finance | 1 | 0 | N/A |
| Electives | 4 | 0 | Courses to satisfy this requirement shall include <br> at least two sequential electives as required by <br> the Standards of Quality. |
| Total | 22 | 5 | N/A |

## Additional Requirements for Graduation:

- Advanced Placement, Honors, International Baccalaureate, Dual Enrollment Course, High-Quality WorkBased Learning Experience or Career and Technical Education Credential
- Virtual Learning - Students shall successfully complete one virtual course, which may be a noncredit-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)
- Demonstration of the five Cs - critical thinking, creative thinking, collaboration, communication, and citizenship

Advanced Diploma Requirements for Students Entering the $9^{\text {th }}$ Grade in 2018-2019 and Beyond

| Subject Area | Units of <br> Credit | Verified <br> Credit | Specifications |
| :--- | :---: | :---: | :--- |
| English | 4 | 2 | N/A |
| Mathematics | 4 | 1 | Courses completed to satisfy this requirement shall <br> include at least three different course selections <br> from among: Algebra I, Geometry, Algebra II, or <br> other mathematics courses above the level of <br> Algebra II. The board shall approve courses to <br> satisfy this requirement. |
| Laboratory <br> Science | 4 | 1 | Courses completed to satisfy this requirement shall <br> include course selections from at least three <br> different science disciplines from among: Earth <br> Science, Biology, Chemistry, or Physics. |
| History and <br> Social Sciences | 4 | 1 | Courses completed to satisfy this requirement shall <br> include Virginia and U.S. History, Virginia and <br> U.S. Government, and two courses in either World <br> History or Geography or both. |
| World Language | 3 | 0 | Courses completed to satisfy this requirement shall <br> include three years of one language or two years of <br> two languages. |
| Health and <br> Physical <br> Education | 2 | 0 | N/A |
| Fine Arts or <br> Career and <br> Technical <br> Education | 1 | 0 | Per the Standards of Quality, a computer science <br> course credit earned by students may be considered <br> a career and technical credit. |
| Economics and <br> Personal Finance | 1 | 0 |  |
| Electives | 3 | 26 | 5 |
| Total |  |  | Courses to satisfy this requirement shall include at <br> least two sequential electives as required by the <br> Standards of Quality. |

## Additional Requirements for Graduation:

- Advanced Placement, Honors, International Baccalaureate, Dual Enrollment Course, High-Quality WorkBased Learning Experience or Career and Technical Education Credential
- Virtual Learning - Students shall successfully complete one virtual course, which may be a noncredit-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)
- Demonstration of the five Cs - critical thinking, creative thinking, collaboration, communication, and citizenship


## APPLIED STUDIES

The Applied Studies Diploma is a diploma option available to students identified as having a disability who complete the requirements of their individualized education programs (IEPs) and meet certain requirements prescribed by the Board of Education pursuant to regulations, but do not meet the requirements for any named diploma.

## GED

Currently, the only Virginia board-approved HSE examination in Virginia is the General Educational Development (GED) test, which was developed to enable persons who have not graduated from high school to demonstrate the attainment of abilities normally associated with completion of a high school program of study. GED Testing Service is a joint venture of the American Council on Education and Pearson VUE.

The GED battery of four tests measures the skills considered to be the major outcomes of a high school education. The tests focus on the major use of skills and concepts rather than upon recall of specific facts. The questions focus on the general abilities to analyze, evaluate, and draw conclusions.

Subject Areas

- Reasoning through Language Arts
- Mathematical Reasoning
- Science
- Social Studies


## HONORS AND ADVANCED PLACEMENT (AP) COURSES

Students are encouraged to take Honors and AP courses for college credit in mathematics, science, social studies, and English as well as arts and world language. Parents and students should be aware that these courses are more rigorous and challenging than average level courses. All high school students enrolled in AP classes must take the AP exams, which are given in May. The cost for each AP exam is determined by the College Board. Financial assistance is available for students meeting income eligibility requirements.

## HIGH-QUALITY WORK-BASED LEARNING

High-Quality Work-Based Learning (HQWBL) comprises school-coordinated workplace experiences related to student's career goals and/or interests, integrated with instruction, and performed in partnership with local businesses and organizations. HQWBL promotes career awareness, exploration, and preparation. The Virginia Department of Education recognizes the following 12 HQWBL experiences: Clinical Experience, Cooperative Education, Job Shadowing, Entrepreneurship, Externship, Internship, Mentorship, Registered Apprenticeship, School-Based Enterprise, Service Learning, Supervised Agriculture Experience, and Youth Registered Apprenticeship.

## TIDEWATER COMMUNITY COLLEGE PROGRAMS

The Dual Enrollment Academies at Tidewater Community College's Portsmouth Campus provides pathways for Portsmouth Public School students to concurrently complete a high school diploma and an Associate's Degree or college credits from TCC. Students can begin taking dual enrollment courses at each grade level based on meeting eligibility requirements. Qualifying $9^{\text {th }}$ and $10^{\text {th }}$ graders can work towards earning one of three Associates Degrees or an Associate of Applied Science in Maritime Technologies. Eleventh graders can work towards a Certificate in General Education or Certificate in Maritime Welding. Qualifying $12^{\text {th }}$ graders are offered the opportunity to earn a minimum of 18 college credits focused on either college transfer or automotive technology.

## CHANGING AND/OR DROPPING COURSES

Students are requested to select their courses each spring term for the following school year. Classes are scheduled and teachers are employed on the basis of the students' schedules. Students are, therefore, expected to follow the schedule of courses for which they register; however, it is recognized that circumstances may arise which will give valid reasons for changing a schedule. Schedule changes will only be made when, in the judgment of the principal, the reason is valid. Merely changing one's mind during the summer does not guarantee that the schedule change can be made.

Required subjects may not be dropped. An elective subject may be dropped without penalty during the first week of school provided that:
a. Dropping the subject does not result in the necessity of canceling the class for lack of demand.
b. The student has the parent's permission to drop the subject.
c. There is another class available for the student to take.

Eighth grade students who take ninth grade courses may drop these subjects to return to eighth grade courses any time during the first semester without penalty.

## GRADING SCALE

The grading scale for students in grades 7-12 is as follows:

| A | $93-100$ | B- | $80-82$ | D+ | $67-69$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| A- | $90-92$ | C+ | $77-79$ | D | $64-66$ |
| B+ | $87-89$ | C | $73-76$ | F | $0-63$ |
| B | $83-86$ | C- | $70-72$ |  |  |

## GRADE POINT AVERAGE

To calculate a student's grade point average, a numerical value is assigned for each letter grade earned in a credit course. Certain courses are designated for a weighted grade. All honors and Advanced Placement/Dual Enrollment or First College courses are included among those to be weighted.

|  |  | REGULAR | HONORS | AP/DUAL ENROLLMENT |
| :---: | :---: | :---: | :---: | :---: |
| A | $=$ | 4 | 4.5 | 5 |
| A- | = | 3.7 | 4.2 | 4.7 |
| B+ | = | 3.3 | 3.8 | 4.3 |
| B | $=$ | 3 | 3.5 | 4 |
| B- | $=$ | 2.7 | 3.2 | 3.7 |
| C+ | = | 2.3 | 2.8 | 3.3 |
| C | = | 2 | 2.5 | 3 |
| C- | = | 1.7 | 2.2 | 2.7 |
| D+ | = | 1.3 | 1.8 | 2.3 |
| D | $=$ | 1 | 1.5 | 2 |
| F | $=$ | 0 | 0 | 0 |

HONOR GRADUATES: A student is designated as an honor graduate if he/she has a cumulative average of 3.0 or better at the time of graduation.

CLASS RANK: Class Rank will be based upon all courses for which a student has attempted high school credit, including courses attempted in middle school. For the Class of 2021 and beyond, the end of the first semester of senior year will serve as the cutoff date for computation of final class rank and the awarding of Valedictorian and Salutatorian.

## ARTICULATION

Program for Articulated Credit and Transfer refers to a special articulation agreement between Tidewater Community College and the Portsmouth Public Schools that help students make a smooth transition from high school to college. Students receive college credit for certain career and technical education courses successfully completed in high school.

## How can students participate?

Participation begins when students enroll in a high school career and technical education course that has been coordinated with a program at Tidewater Community College. Since some of these courses may be taken in the sophomore year in high school or require a large block of time in the junior or senior years, planning a high school schedule early is very important.

## What are the advantages of pursuing the Program for Articulated Credit and Transfer?

Students pursuing the Program for Articulated Credit and Transfer will:

- have the opportunity to begin fulfilling college-level educational requirements in high school;
- be better prepared to enter college with career goals in mind;
- $\quad$ save time in preparing for a career because they are not required to duplicate instruction received in high school; and
- have the opportunity to enrich their college program with additional advanced courses related to career or personal development.


## Who is eligible?

Any student is eligible who has completed all of the following requirements:

- completion of a high school career and technical-education course that is part of the articulation agreement;
- achievement of a grade of "B" or better in the high school career and technical-education course(s); and
- enrollment in Tidewater Community College within three years after graduation.


## How and when is college credit awarded?

Students who are eligible for college credit through this agreement must, after high school graduation, (1) have a transcript sent to the Admissions and Records Office at Tidewater Community College, and (2) complete a "Request of Evaluation of Previous Educational Experience" form, which is available through the Enrollment Services Office at TCC.

Students receive college credit for designated high school career and technical-education courses after successfully completing the equivalent of twelve semester hours of study in the articulated program area at Tidewater Community College. Student transcripts will list the courses and credit hours of the college courses that are a part of the agreement. This means students have fewer courses to take to complete a college program and more time to take additional courses for advanced skills.

## What is the cost?

No tuition fee will be charged for the articulated courses for which credit is awarded by the college. This means that students enrolling at Tidewater Community College will save money by taking and successfully completing certain high school career and technical-education courses.

## TECHNICAL DUAL ENROLLMENT

Students are provided the opportunity to take selected college level technical classes in Portsmouth Public Schools and on the campus of Tidewater Community College. The students must satisfy the admission requirements of TCC. Students who successfully complete the courses receive both college credit and weighted high school credits.

## Graduation (Diploma) Seals of Achievement

## 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.


## ATHLETICS

## HIGH SCHOOL EXTRACURRICULAR ACTIVITY ELIGIBILITY

Extracurricular activities ordinarily outside the school; they include all Virginia High School League (VHSL) activities, marching band, clubs, plays, and the like. Tutoring programs designed to increase student academic achievement are not considered "extracurricular activities" for the purpose of this policy. Concert band, chorus, orchestra, ROTC, and strings are not extracurricular activities; they are classes for which students receive a grade.

Student extracurricular activities are an integral part of school life and are used as a means of developing wholesome attitudes and fostering good human relation traits, as well as knowledge and skills. These activities are supplementary to the basic courses of study, but often require as much careful planning and supervision as students experiences in the academic subject area.

While it is desired that students participate in such activities in order to fulfill their educational development, it is of paramount importance that such participation neither jeopardize their academic achievement nor exploits their time and talents.

## GRADING PERIOD

For the purpose of this policy, the term "grading period" shall be defined as an eighteen-week semester. For the purpose of this policy, the student's eligibility or ineligibility shall be determined on the first day of the school year and on the first calendar day following the end of the first grading period as reflected in the Board approved instructional calendar.

### 2.0 GRADE POINT AVERAGE RULE

In order to participate in any school sponsored extracurricular activity, a student must maintain a 2.0 grade point average (GPA) for the preceding semester.

## Exemptions

1. A student who has a cumulative GPA of 2.5 or higher and whose GPA for a given semester falls below a 2.0 will be allowed to participate in extracurricular activities for the following semester.
2. A student who has a cumulative GPA between 2.0 and 2.5 and whose GPA falls below 2.0 may participate in extracurricular activities the following semester on a probationary basis through the approval of a one time, single semester waiver. The student, his/her parent(s), or his/her guardian(s) may initiate the request for a waiver. The waiver must be submitted on the appropriate form: $\mathbf{2 . 0}$ GPA Rule Semester Waiver.
3. The following items must be attached to the completed form: (a) the student's attendance record, (b) the student's disciplinary record, (c) the student's reason for falling below a 2.0 GPA , and (d) a plan to raise his/her GPA above 2.0 in the current semester. The student, the parent(s), the principal, the Supervisor of Health, Physical Education, and Athletics, and the Division Superintendent must sign the waiver. In addition, the student MUST satisfy all the scholarship requirements established by the Virginia High School (VHSL). A student can only receive a waiver once during his/her years of VHSL eligibility in Portsmouth Public Schools. A student whose Cumulative GPA is below a 2.0 may NOT apply for a waiver under any circumstances.

A student who receives a grade of " $F$ " in more than one subject, including concert band, chorus, orchestra, strings, and physical education, shall be INELIGIBLE in a given semester regardless of the GPA earned for that semester or where their cumulative GPA stands.

A student who is enrolled in a course such as concert band, chorus, orchestra, or strings which has an after school component and who is declared ineligible shall participate in the scheduled class and will be permitted to perform in any concert, parade, or other related activity occurring after regular school hours since it is part of the course requirements. However, marching band does NOT apply because a grade is not given.

After the distribution of the 18 -week report cards, the school counseling staff of each school shall notify each student and each coach and/or sponsor of a student's potential eligibility or ineligibility status for the next semester.

An incomplete grade for a semester shall be made up within five (5) school days of the date of the distribution of report cards. In unusual circumstances, the period may be extended by the principal. If otherwise eligible, a student may participate in extracurricular activities during the period that an "incomplete" is in effect.

In determining eligibility, any final grade earned in summer school shall be treated as a grade for the precious semester.
The provisions of this policy shall NOT apply to special education students and to other students whose eligibility must be determined in accordance with applicable federal and state laws and regulations.

A transfer student who enrolls during the first nine weeks of the semester shall be exempt from the requirements of this policy for the remainder of the semester, provided that he/she would have been eligible to participate in extracurricular activities in the division which he/she transferred. A student who transfers after the first nine weeks of the semester shall be exempt from the requirements of this policy that semester and the next succeeding grading period, provided that the student would have been eligible in the division from which he/she transferred.

Enforcement of this policy shall be the responsibility of the Citywide Athletic Director, the Chief of Schools, building principals, activities directors, coaches, and sponsors.

## MIDDLE SCHOOL ELIGIBILITY RULES

1. Be a bona fide full time student in good standing.
2. May not have reached the age of 15 on or before August 1 of the school year you intend to participate.
3. Satisfactorily completed the Portsmouth Middle School League Athletic Participation/Parental Consent/Physician's form at least once each year. Separate physician's exam is required each school year; May $1^{\text {st }}$ of the current year through June $30^{\text {th }}$ of the succeeding year.
4. May NOT participate during the days assigned to In-School Suspension.
5. May NOT participate for the remainder of the nine week season if the student received two (2) In-School Suspension assignments or one (1) Out-of School Suspensions within that season or length of time determined by the principal or designee.
6. May participate in each activity only once as a seventh grader and once as an eighth grader or a total of two (2) years.

## 7. An eighth grader may participate on a junior varsity team at the high school they are zoned for if the seasons do not cross over.

8. A student must attend four (4) complete classes on a school day in order to participate in extracurricular activities that school day. (Exceptions: funerals, fieldtrips, doctor appointments, all of which must be approved by the principal).
9. These rules apply to ALL transfer students.

## ELIGIBILITY VIOLATIONS

1. The principal of each member school is obligated to report any violation of League rules to the League.
2. If a student or his/her parent or guardian gives false information, written or verbal, that affects his/her eligibility upon entering and/or during his/her years of eligibility, the student shall become ineligible at any PMSL school for a period of one year from the date the information is certified as being false.
3. For participation of an ineligible student(s) in any PMSL contest(s): the contest will be forfeited in which the ineligible student(s) participated, and disqualification of ineligible student(s) until such time as he/she or they become eligible under League rules. (Participation is defined as playing in a game or match.)
4. It is the responsibility of the principal of the school with the ineligible student to report the situation to the League and all schools involved.

## Sports offered by Season

## Varsity Sports

| Fall | Winter | Spring |
| :--- | :--- | :--- |
| Cheering (Coed) | Basketball (Boys and Girls) | Baseball |
| Cross Country (Boys and Girls) | Cheering (Coed) | Soccer (Boys and Girls) |
| Field Hockey | Competition Cheering (Coed) | Softball |
| Football | Debate (Coed) | Tennis (Boys and Girls) |
| Golf (Coed) | Forensics (Coed) | Outdoor Track (Boys and Girls) |
| Marching Band (Coed) | Indoor Track (Boys and Girls) | E Sports (Coed) |
| Volleyball (Boys and Girls) | One Act Play (Coed) |  |
|  | Scholastic Bowl (Coed) |  |
|  | Swimming (Boys and Girls) |  |
|  | Wrestling (Coed) |  |

## Junior Varsity Sports

| Fall | Winter | Spring |
| :--- | :--- | :--- |
| Cheering (Coed) | Basketball (Boys and Girls) | Baseball |
| Field Hockey | Cheering (Coed) | Soccer (Boys and Girls) |
| Football |  | Softball |
| Volleyball (Girls) |  |  |

## Middle School Sports

| Fall | Winter | Spring |
| :--- | :--- | :--- |
| Cheering (Coed) | Basketball (Boys and Girls) | Soccer (Boys and Girls) |
| Football | Cheering (Coed) | Softball |
| Volleyball (Boys and Girls) | Scholastic Bowl (Coed) | Track (Boys and Girls) |
|  | Wrestling (Coed) |  |

## POTENTIAL COURSE PROGRESSIONS

## Mathematics Scheduling Guidelines

Students entering High School 2018-2019 school year and beyond
Yellow highlight indicates a student must take the SOL assessment

## Option 1

| GRADE <br> LEVEL | COURSE PROGRESSION | MINIMUM REQUIREMENTS FOR <br> NEXT COURSE PLACEMENT |  |
| :---: | :---: | :---: | :---: |
|  |  | End of Year Grade | SOL Score |
| $\mathbf{7}$ | Math 7 | A-B-C | Less than 450 |
| $\mathbf{8}$ | Math 8 | B-C | Less than 450 |
| $\mathbf{9}$ | Algebra I | A-B | $400-450$ |
| $\mathbf{1 0}$ | Geometry | A-B | $400-450$ |
| $\mathbf{1 1}$ | Algebra II | ---- | $400-450$ |
| $\mathbf{1 2}$ | Trigonometry or Probability and Statistics | ----- | ----- |

## Option 2

| GRADE <br> LEVEL | COURSE PROGRESSION | MINIMUM REQUIREMENTS FOR NEXT COURSE PLACEMENT |  |
| :---: | :---: | :---: | :---: |
|  |  | End of Year Grade | SOL Score |
| 7 | Math 7 | C-D-F | Less than 400 |
| 8 | Math 8 | C-D-F | Less than 400 |
| 9 | Foundations (Semester 1 only) Limited to 60 students per school Algebra 1 (Semester 2) | ----- | 400-450 |
| 10 | Geometry Part 1 (Semester 1) Geometry Part 2 (Semester 2) | ----- | --- |
| 11 | AFDA <br> Note: AFDA is not a prerequisite for Algebra II | ----- | ----- |
| 12 | Algebra II | ----- | ----- |

## Option 3

| GRADE LEVEL | COURSE PROGRESSION | MINIMUM REQUIREMENTS FOR NEXT COURSE PLACEMENT |  |
| :---: | :---: | :---: | :---: |
|  |  | End of Year Grade | SOL Score |
| 7 | Math 7 | C-D | Less than 425 |
| 8 | Math 8 | C-D | Less than 425 |
| 9 | Algebra 1A (Semester 1) Algebra 1B (Semester 2) | ----- | Less than 425 |
| 10 | Geometry Part 1 (Semester 1) Geometry Part 2 (Semester 2) | ----- | Less than 425 |
| 11 | Algebra II | ----- | ----- |
| 12 | Trigonometry or Probability and Statistics | ----- | ----- |

Option 4

| GRADE <br> LEVEL | COURSE PROGRESSION | MINIMUM REQUIREMENTS FOR <br> NEXT COURSE PLACEMENT |  |
| :---: | :---: | :---: | :---: |
|  |  | End of Year Grade | SOL Score |
| $\mathbf{7}$ | Math 7 Honors | A-B | 450 or greater |
| $\mathbf{8}$ | Algebra 1 | A-B | 450 or greater |
| $\mathbf{9}$ | Geometry | A-B | 450 or greater |
| $\mathbf{1 0}$ | Algebra II | ---- | 400 or greater |
| $\mathbf{1 1}$ | Trigonometry or Probability and Statistics | ---- | ----- |
| $\mathbf{1 2}$ | Math Analysis or Probability and Statistics | ----- | ----- |

## Option 5

| GRADE <br> LEVEL | COURSE PROGRESSION | MINIMUM REQUIREMENTS FOR <br> NEXT COURSE PLACEMENT |  |
| :---: | :---: | :---: | :---: |
|  |  | End of Year Grade | SOL Score |
| $\mathbf{7}$ | Math 7 | A-B | 450 or greater |
| $\mathbf{8}$ | Algebra 1 | C-D | 400 or greater |
| $\mathbf{9}$ | Geometry Part 1 (Semester 1) <br> Geometry Part 2 (Semester 2) | C-D | 400 or greater |
| $\mathbf{1 0}$ | AFDA | ----- | ----- |
| $\mathbf{1 1}$ | Note: AFDA is not a prerequisite for Algebra II | Algebra II | ------- |
| $\mathbf{1 2}$ | Trigonometry or Probability and Statistics | ----- | ---- |

## Option 6

| GRADE <br> LEVEL | COURSE PROGRESSION | MINIMUM REQUIREMENTS FOR <br> NEXT COURSE PLACEMENT |  |
| :---: | :---: | :---: | :---: |
|  |  | End of Year Grade | SOL Score |
| $\mathbf{7}$ | Math 7 | A-B | 450 or greater |
| $\mathbf{8}$ | Algebra 1 | C-D | $400-450$ |
| $\mathbf{9}$ | Geometry Part 1 (Semester 1) <br> Geometry Part 2 (Semester 2) | B-C | $400-450$ |
| $\mathbf{1 0}$ | Algebra II | ---- | 400 or greater |
| $\mathbf{1 1}$ | Trigonometry or Probability and Statistics | ----- | ------ |
| $\mathbf{1 2}$ | Math Analysis | ---- | --- |

Option 7

| GRADE <br> LEVEL | COURSE PROGRESSION | MINIMUM REQUIREMENTS FOR <br> NEXT COURSE PLACEMENT |  |
| :---: | :---: | :---: | :---: |
|  |  | End of Year Grade | SOL Score |
| $\mathbf{7}$ | Algebra 1 | A-B | 450 or greater |
| $\mathbf{8}$ | Geometry | A-B | 450 or greater |
| $\mathbf{9}$ | Algebra II | A-B | 400 |
| $\mathbf{1 0}$ | Trigonometry or Probability and Statistics | ----- | ----- |
| $\mathbf{1 1}$ | Math Analysis | ----- | ----- |
| $\mathbf{1 2}$ | AP Calculus | ---- | --- |

## Option 8

| GRADE <br> LEVEL | COURSE PROGRESSION | MINIMUM REQUIREMENTS FOR <br> NEXT COURSE PLACEMENT |  |
| :---: | :---: | :---: | :---: |
|  |  | End of Year Grade | SOL Score |
| $\mathbf{7}$ | Algebra 1 | A-B | $400-450$ |
| $\mathbf{8}$ | Geometry | A-B | $400-450$ |
| $\mathbf{9}$ | Algebra II | ---- | ---- |
| $\mathbf{1 0}$ | Trigonometry (Semester 1) <br> Math Analysis (Semester 2) | ---- | ---- |
| $\mathbf{1 1}$ | AP Calculus or AP Statistics Virtual Virginia | ----- | ----- |
| $\mathbf{1 2}$ | First College | ---- | ---- |

## Option 9

| GRADE LEVEL | COURSE PROGRESSION | MINIMUM REQUIREMENTS FOR NEXT COURSE PLACEMENT |  |
| :---: | :---: | :---: | :---: |
|  |  | End of Year Grade | SOL Score |
| 7 | Algebra 1 | A-B | 450 or greater |
| 8 | Geometry | A-B | 450 or greater |
| 9 | Algebra II (Semester 1) Trigonometry (Semester 2) | ----- | ----- |
| 10 | Discrete Math | ----- | ----- |
| 11 | Math Analysis | ----- | ----- |
| 12 | AP Calculus or AP Statistics Virtual Virginia | --- | ----- |

Option 10

| GRADE LEVEL | COURSE PROGRESSION | MINIMUM REQUIREMENTS FOR NEXT COURSE PLACEMENT |  |
| :---: | :---: | :---: | :---: |
|  |  | End of Year Grade | SOL Score |
| 7 | Algebra 1 | C-D | ----- |
| 8 | Geometry | C-D | ----- |
| 9 | AFDA <br> Note: AFDA is not a prerequisite for Algebra II | ----- | ----- |
| 10 | Algebra II | ----- | ----- |
| 11 | Trigonometry or Probability and Statistics | ----- | ----- |
| 12 | Teacher Recommendation | ---- | ----- |

## SECONDARY COURSE OFFERINGS

## CAREER AND TECHNICAL EDUCATION

## MIDDLE SCHOOL COURSES

CAREER INVESTIGATIONS - (9068 - 9 WEEKS)<br>Grade 7: Elective Wheel<br>Prerequisite: None

This course allows students to research career options based on their personal interests, discover career opportunities, and identify essential workplace skills. Students will explore Virginia's career clusters, and discover how to select potential professions that complement their strengths, interests, interests, and values. Students will recognize the academic requirements needed to ensure future success in the career pathway. Students will create an Academic and Career Plan that is based on their career interests and academic requirements.

## CAREER EXPLORATIONS - (9066 - 18 WEEKS)

Grade 8
Prerequisite: None
This course allows students to explore their personal interests and skills as they explore career pathways. Students will explore Virginia's career clusters, and discover how to select potential professions that complement their strengths, interests, interests, and values. Students will recognize the academic requirements needed to ensure future success in the career pathway.

## KEYBOARDING EXPLORATIONS - ( 6150 - 18 weeks)

Grade 8
Prerequisite: None
This course introduces students to computer basics, keyboarding skills, and potential careers. Students will develop and enhance touch-typing skills to create personal, educational, and professional documents using a keyboard. Select tasks in this course will correlate with many Future Business Leaders of America (FBLA) competitive events.

## INTRODUCTION TO TECHNOLOGY - (8482-9 WEEKS)

Grade 7 - Elective Wheel
Prerequisite: None
This course allows students to utilize technological resources and problem-solving skills to determine the impact of technology on society, the environment, and culture.

## AGRICULTURAL EDUCATION

The Horticulture Program is a specialized occupational area in Agricultural Education. It is designed to assist students in developing the necessary knowledge, skills, habits, and attitudes for entry-level employment in landscape design, greenhouse operation, nursery plant production, and turf management. Courses are offered at the Career and Technical education office site.

## HORTICULTURE SCIENCES (8034)

Grades 10-12
Prerequisite: None

This course prepares students for postsecondary educational career programs and entry-level positions in the horticulture industry. Instruction includes safety in the horticulture industry, the science of horticulture and nursery plant production, greenhouse operation and management, landscape design, and turf management. Through hands-on activities, students will identify and manage plant-growing substrates and propagate and grow horticultural plants in the greenhouse and land laboratory. Contextual instruction and student participation in co-curricular career and technical student organization (CTSO) activities will develop leadership, interpersonal, and career skills. High-quality work-based learning (HQWBL)
will provide experiential learning opportunities related to students' career goals and/or interests, integrated with instruction, and performed in partnership with local businesses and organizations.

HORTICULTURE I - 2 UNITS (8035)
Greenhouse Operation and Management
Grades 11-12
Prerequisite: None
Horticulture I is a one-term, double-period, occupational preparation course designed to assist students in developing the necessary knowledge, skills, habits, and attitudes for entry-level employment. Students receive instruction in using soil and other plant-growing media and in identifying, propagating, and growing horticultural plants in the greenhouse and land laboratory.

## HORTICULTURE II - 2 UNITS (8036)

(Nursery and Landscape Management)
Grades 11-12
Prerequisite: Horticulture I
Horticulture II is a one-term, double-period, occupational preparation course. Units of instruction include growing greenhouse crops; producing and maintaining nursery crops; establishing, maintaining, and designing landscape planting; establishing and maintaining turf grass; and operating a flower shop and a garden center.

## BUSINESS AND INFORMATION TECHNOLOGY

Business Education course offerings are designed to meet the needs of two groups of students. Courses provide basic business education including occupational orientation and exploration for all students. Occupational preparation courses are offered for students who plan to enter business and office occupations. Cooperative training may be a part of this program for an additional credit. The on-the-job experience is an extension of the classroom instruction.

## ACCOUNTING - 1 UNIT (6320)

Grades 11-12
Prerequisite: Keyboarding Applications
Accounting is a one-semester, single-period course with emphasis on accounting principles as they relate to both manual and computerized financial systems. Instruction integrates microcomputers and electronic calculators. The relationships and processes of manual and computerized accounting are presented.

## BUSINESS LAW -1 UNIT (6131)

Grades 11-12
Prerequisite: None
Business Law is a half-semester, single-period course that incorporates economic and social concepts as they relate to laws affecting businesses and individuals. Course topics include: contracts; bailments; employment; property, sales, and insurance laws; business organization; commercial paper; bankruptcy; agencies and trust; and business law careers.

## BUSINESS MANAGEMENT - 1 UNIT (6136)

Grades 11-12
Prerequisite: None
Business Management is a half-semester, single-period course. Students are provided a general overview of national and international business and the social and economic environment of business. Topics include: business ownership, finance, communications, human resources, and management functions.

## PRINCIPLES OF BUS/MARK - 1 UNIT (6116)

Grades 9-10
Prerequisite: None
Students discover the roles of business and marketing in the free enterprise system and the global economy. Basic financial concepts of banking, insurance, credit, inheritance, taxation, and investments are investigated to provide a strong background as students prepare to make sound decisions as consumers, wage earners, and citizens. The realworld impact of technology, effective communication, and interpersonal skills is evident throughout the course. This course also supports career development skills and explores career options.

## COMPUTER INFORMATION SYSTEMS - 1 UNIT (6612)

Grades 10-12
Prerequisite: Keyboarding Applications
Computer Information Systems is a one-semester, single-period course. Students apply problem-solving skills to real life situations through (a) database, spreadsheet, and word processing software; (b) charting; and (c) integrated activities. They work individually and in groups to explore data/telecommunications, operating systems, and basic networking principles.

## CYBER SECURITY FUNDAMENTALS I \& II (CYBR) - 1 UNIT (63020)

Grades 9-12
Prerequisite: Keyboarding Applications
The need for personal and professional cyber security skills has never been greater. The Cyber Security/Forensics infusion units are comprised of three main pieces: Cyber Security Foundations, Social Engineering and Personal Cyber Security, and Cyber Forensics. All tasks are listed as optional so that instructors may customize the units as they wish.

## DIGITAL APPLICATIONS - 1 UNIT (6611)

Grades 9-10
Prerequisite: None
This course is designed for secondary school students to develop real-life, outcome-driven approach skills for digital citizenship, basic computer operations, keyboarding, application software (word processing, spreadsheets, multimedia applications, databases), and career exploration. This course promotes skills that can be applied across the curriculum and offers preparation relevant to $21^{\text {st }}$ century and postsecondary education. Students who successfully complete this course may be eligible for a rigorous and relevant industry certification examination. Students skills may be enhanced by participation in work-based learning activates and/or the Future Business Leaders of America (FBLA).

## ECONOMICS AND PERSONAL FINANCE - 36 WEEKS I UNIT (6120)

Grades 10-12
Students will learn how to navigate the financial decisions they must face and make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living independently, and inheritance. Development of financial literacy skills and an understanding of economic principles will provide the basis for responsible citizenship and career success. In addition to developing personal finance skills students in the 36 -week course will also study basic occupational skills and concepts in preparation for entry-level employment in the field of finance. The course incorporates all economics and financial literacy objectives included in the Code of Virginia §22.1-200-03B. The cooperative education method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

## LEGAL SYSTEMS ADMINISTRATION - 1 UNIT (6735)

Grades 11-12
Prerequisite: Keyboarding Applications
Legal Systems Administration is a one-semester, single period course. Students wishing to gain employment in the legal field may take this course to learn how to use legal terminology and procedures useful in preparing legal documents and in functioning effectively in a law office.

## OFFICE ADMINISTRATION - 1 UNIT (6621)

Grades 10-12
Office Administration is a one-semester, single-period course with emphasis on the development of word processing applications and office skills. Additional units of instruction include: operation of various office equipment, record and database management, human relations, oral and written communication, record keeping, information processing, and office careers orientation.

## DESIGN, MULTIMEDIA AND WEB TECHNOLOGIES (6630)

Grades 10, 11, 12
Prerequisite: None

Students apply creativity and technology to create visual design, multimedia projects, and web projects, using industry-standard software. Work-based learning experiences allow students to apply layout and design techniques in real-world situations. Students create portfolios that include a résumé, certifications earned, and a variety of projects produced in the course.

## DESIGN, MULTIMEDIA AND WEB TECHNOLOGIES ADVANCED (6631)

Grades: 10,11,12
Prerequisites: Design, Multimedia, and Web Technologies 6630
In this course, students acquire advanced skills in design, multimedia, and web development by applying project management principles to create professional quality digital media projects. Work-based learning experiences allow students to apply layout and design techniques in real-world situations. Students create portfolios that include a résumé, certifications earned, and a variety of print, multimedia, and website projects produced in the course.

## EDUCATION

## VIRGINIA TEACHERS FOR TOMORROW (VTfT) - 1 UNIT (9062)

Grades 10-12
Prerequisite: None
Fosters student interest, understanding, and appreciation of the teaching profession and allows secondary students to explore careers in education. Students build a foundation for teaching; learn the history, structure and governance of teaching; apply professional teaching techniques in the VTfT classroom and field experience; and reflect on their teaching experiences. Additional educational leadership opportunities are offered through the student organization, Educators Rising.

## VIRGINIA TEACHERS FOR TOMORROW II - 1 UNIT (9072)

Grades 11-12
Prerequisite: 9062
Students continue to explore careers in the Education and Training Cluster and pathways. This course provides the opportunity for students to prepare for careers in education as they research postsecondary options, learn about the process of teacher certification in Virginia, and participate in a practicum experience.

## FAMILY AND CONSUMER SCIENCES

Family and Consumer Sciences programs are designed to focus and develop the occupational skills, knowledge, attitudes and work habits that prepare students for careers in the areas associated with the consumer and family field. Additionally, non-occupational courses are offered in the traditional family studies.

## CULINARY ARTS I - 2 UNITS (8275)

## Grades 11-12

Prerequisite: Nutrition and Wellness is recommended
Culinary Arts is a one-period, one-year class which prepares students in the art of planning, arranging, preparing, and serving food and beverages at a variety of social functions, and in preparing and packaging food products for boxed meals, parties, or other special occasions.

## CULINARY ARTS II - 2 UNITS (8276)

## Grades 11-12

Prerequisite: Culinary Arts I (8275)
The Culinary Arts II curriculum provides students with continuing opportunities to acquire a comprehensive knowledge of the food service industry as well as to expand their technical skills. Students practice kitchen safety and sanitation, apply nutritional principles to food preparation and storage, perform a wide range of more advanced food-preparation techniques including garde manger and baking, refine their dining room serving skills, develop menus, perform on-site and off-site catered functions, and strengthen their business and math skills. The curriculum continues to place a strong emphasis on science and mathematics knowledge and skills.

## EARLY CHILDHOOD EDUCATION AND SERVICES I - 2 UNITS (8285)

Grades 11-12
Prerequisite: Nutrition and Wellness is recommended
Students prepare to be primary providers of home, family, or institution-based child care services be focusing their study on the planning, organizing, and conducting of meaningful play and learning activities; child monitoring and supervision; record keeping; and referral procedures. Critical thinking, practical problem solving, and entrepreneurship opportunities within the field of early childhood education are emphasized. Teachers highlight the basic skills of math, science, and communication when appropriate in content.

## EARLY CHILDHOOD EDUCATION AND SERVICES II (8286)

Grades 11-12
Prerequisite: Early Childhood Education I
Students prepare for positions in child care centers as child care attendants, kindergarten aides, or child care assistants; as Foster parents; or as entrepreneurs. Cooperative (on-the-job) education or work-based learning opportunities under the supervision of the instructor are an option. Critical thinking, practical problem solving, and entrepreneurship opportunities within the field of early childhood education are emphasized. Teachers highlight the basic skill of math, science, and communication when appropriate in content.

## LIFE PLANNING - 1 UNIT (8227)

Grades 9-12
Prerequisite: None
Students enrolled in this one-semester, one-period class focuses on developing a life management plan; caring for self and others to ensure wellness; building and maintaining constructive relationships; building and maintaining strong families; and strategies for career planning.

## NUTRITION AND WELLNESS - 1 UNIT (8229)

## Grades 9-12

Prerequisite: None
Students enrolled in Nutrition and Wellness focus on making choices that promote wellness and good health; analyzing relationships between psychological and social needs and food choices; choosing foods that promote wellness; obtaining and storing food for self and family; preparing and serving nutritious meals and snacks; selecting and using equipment for food preparation and identifying strategies to promote optimal nutrition and wellness of society. Teachers highlight the basic skills of math, science, and communication when appropriate in the content.

## HEALTH AND MEDICAL SCIENCES

Health Occupations Education is designed to prepare students with basic skills for employment in nursing homes, clinics, medical and dental offices, hospitals, and certain public health settings. The occupational preparation programs provide knowledge, which enables students to enter employment in the health field immediately after program completion. These courses are offered at the divisions Career and Technical Education sites.

## NURSE ASSISTANT 1 - 2 UNITS (8360)

## Grades 11-12

Prerequisite: None
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. They 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 competencies for a certified nursing assistant are met.

## PATIENT TECHNICIAN I - (8303)

Grade 12
Prerequisite: Nurse Assistant I
Patient Care Technician emphasizes the study of nursing occupations as related to the healthcare system. Students study normal growth and development, simple body structure and function, medical terminology, and are introduced to microbes and disease. Upon completion of the course, students will have mastered the skills needed to perform electrocardiograms (ECGs); execute basic medical, lab, and exam procedures; draw blood; and provide basic patient/client care. Students will be eligible to take the National Certification Exams to become Certified Phlebotomy Technicians, Certified ECG Technicians, and Certified Patient Care Technicians.

## SPORTS MEDICINE/ATHLETIC TRAINING I - 1 UNIT (7660)

Grades 11-12
Prerequisite: None
This course of studies provides students with the basic concepts and skill set required for an entry-level position as a sports medicine assistant. It introduces students to topics such as injury prevention, nutrition, first aid/CPR/AED, exercise physiology, and biomechanics. Students study basic human anatomy and physiology, medical terminology, legal and ethical issues in sports medicine, and career preparation. Course competencies have been constructed so as not to go beyond the professional scope of aide/assistant level. Mastery of the material in this course would provide students with a strong background should they wish to pursue certification in areas such as first aid, CPR, AED, and/or personal trainer.

## SPORTS MEDICINE/ ATHLETIC TRAINING II - 1 UNIT (7662)

Grades 11-12
Prerequisite: Sports Medicine/ Athletic Training I (7660/36 Weeks)
This course of studies provides students with the basic concepts and skill set required for an entry-level position as a sports medicine assistant. It introduces students to topics such as injury prevention, nutrition, first aid/CPR/AED, exercise physiology, and biomechanics. Students study basic human anatomy and physiology, medical terminology, legal and ethical issues in sports medicine, and career preparation. Course competencies have been constructed so as not to go beyond the professional scope of aide/assistant level. Mastery of the material in this course would provide students with a strong background should they wish to pursue certification in areas such as first aid, CPR, AED, and/or personal trainer.

## MARKETING EDUCATION

Marketing Education prepares students for careers in the marketing of goods or services; the buying, transporting, and storing of goods; the promotion of goods and services; marketing research; and marketing management. Through classroom instruction and supervised on-the-job training, Marketing Education enables students to develop competencies that prepare them for full-time employment or for advanced educational or training programs.

## ENTREPRENEURSHIP EDUCATION - 1 UNIT (9093)

Grades 9-12
Prerequisite: None
This course introduces students to the exciting world of creating, owning, and launching their own business. Students will learn concepts and techniques for planning an innovative business and living the entrepreneurial lifestyle.

## ENTREPRENEURSHIP EDUCATION ADVANCED - 1 UNIT (9094

Grades 10-12
Prerequisite: 9093
This course is designed for students who wish to concentrate on advanced strategies for entrepreneurship, building upon concepts introduced in Entrepreneurship (9093). The focus of the course is on development of a business plan and small business management. Students will establish, market, and maintain a business.

## MARKETING - 1 UNIT (8120)

Grades 11-12
Prerequisite: None
Students examine activities in marketing and business important for success in marketing employment and postsecondary education. Students will learn how products are developed, branded, and sold to businesses and consumers. Students will analyze industry trends and gain hands-on experience in the marketing of goods, services, and ideas. Topics will include professionalism in the workplace, product planning and positioning, promotion, pricing, selling, economic issues, and the impact of technology on the marketplace. This course reinforces mathematics, science, English, and history/social science Standards of Learning (SOL). Computer/technology applications and DECA activities enhance the course. DECA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

## ADVANCED MARKETING - I UNIT (8130)

Grade 12
Prerequisite: Marketing or Fashion Marketing
Students build on knowledge gained in a prior Marketing course. Students participate in supervisory and management activities focusing on the marketing mix, purchasing, financing, human resources, global marketing, pricing, and emerging technologies. Students will prepare for advancement in marketing careers and postsecondary education. This course reinforces mathematics, science, English, and history/social science Standards of Learning (SOL). Computer/technology applications and DECA activities enhance the course. DECA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

## FASHION MARKETING - 1 UNIT (8140)

Grades 11-12
Prerequisite: None
In this specialized course, students gain basic knowledge of the apparel and accessories industry and skills necessary for successful employment in apparel businesses. Students develop general marketing skills necessary for successful employment in fashion marketing, general marketing skills applicable to the apparel and accessories industry, and specialized skills unique to fashion marketing. Personal selling, sales promotion, purchasing, physical distribution, market planning, and product/service technology as well as academic skills (mathematics, science, English, and history/social science) related to the content are part of this course. Computer/technology applications supporting this course are studied.

ADVANCED MARKETING CO-OP - 2 UNITS (8130)
Grade 12
Prerequisite: Marketing or Fashion Marketing
Advanced Marketing is designed to provide students with (a) in-depth knowledge of the marketing functions and the supervisory and management responsibilities for those functions and (b) competencies important for successful supervisory management employment and advancement to other management positions. In addition, students receive supervised on-the-job training throughout the school year. This course requires a student to work a specific number of hours in a course-related job to receive the additional credit.

## OPPORTUNITIES IN HOSPITALITY \& TOURISM - 2 UNITS (8169)

Grades 11-12
Prerequisite: None
In this specialized course, students with a career interest in the field of hospitality and recreation develop skills in the areas of hotel front-office procedures, human relations, food and beverage service, purchasing, tourism, travel, and sales promotion. In addition, students obtain a thorough understanding of the hotel-motel industry and the career options available. Academic skills (mathematics, science, English, and history/social science) related to the content are part of this course. Computer/technology applications supporting this course are studied.

## PRINCIPLES OF BUS/MARK - 1 UNIT (6115)

Grades 9-10
Prerequisite: None
Students discover the roles of business and marketing in the free enterprise system and the global economy. Basic financial concepts of banking, insurance, credit, inheritance, taxation, and investments are investigated to provide a strong background as students prepare to make sound decisions as consumers, wage earners, and citizens. The realworld impact of technology, effective communication, and interpersonal skills is evident throughout the course. This course also supports career development skills and explores career options.

## MILITARY SCIENCE

| JROTC: | Churchland | - | Marines |
| :--- | :--- | :--- | :--- |
|  | I.C. Norcom | - | Navy |
|  | Manor | - | Army |

## MILITARY SCIENCE I - 1 UNIT (7913)

Grades 9-12
Prerequisite: None
Students are introduced to the JROTC curriculum, and basic U.S. citizenship rights and responsibilities are established and reinforced. Students learn leadership, history, communication techniques, disciplined study habits, management skills, first aid, drug abuse prevention, map reading, physical fitness, and workplace
readiness skills. Military customs and courtesies, proper uniform wear, and personal appearance guidelines are followed within the leadership lab, drill, and military ceremonies.

## MILITARY SCIENCE II - 1 UNIT (7916)

Grades 9-12
Prerequisite: Military Science I (7913/36 weeks)
Students are introduced to the JROTC curriculum, and basic U.S. citizenship rights and responsibilities are established and reinforced. Students learn leadership, history, communication techniques, disciplined study habits, management skills, first aid, drug abuse prevention, map reading, physical fitness, and workplace readiness skills. Military customs and courtesies, proper uniform wear, and personal appearance guidelines are followed within the leadership lab, drill, and military ceremonies.

## MILITARY SCIENCE III - 1 UNIT (7918)

Grades 10-12
Prerequisite: Military Science II (7916/36 weeks)
Students continue to develop their leadership skills through working as command and staff leaders. Additional communication skills are developed, including methods of instruction, preparation, and proper conduct of cadetled classes. Human relations, group dynamics, orienteering, contemporary U. S. issues, and advanced military history studies are also included.

## MILITARY SCIENCE IV - 1 UNIT (7919)

Grades 10-12
Prerequisite: Military Science III (7918/36 weeks)
Students continue to develop their leadership skills through working as command and staff leaders. Additional communication skills are developed, including methods of instruction, preparation, and proper conduct of cadetled classes. Human relations, group dynamics, orienteering, contemporary U. S. issues, and advanced military history studies are also included.

## TECHNOLOGY EDUCATION

Technology Education teaches students to understand, use, and control technology. The curriculum covers the development of technology and its effect on people, the environment, and society. Students learn how to adjust to change, to deal with forces that influence their fortune, and to participate in controlling their future. In the laboratory, students develop insights into the application of technological concepts, processes, and systems. They are prepared to be active participants in controlling their future.

## COMMUNICATIONS SYSTEMS - 1 UNIT (8415)

Grades 9-12
Prerequisite: None
Communications Systems is a one-semester, single-period course that involves students in using technology to communicate information in visual or audio formats. Communications systems are an integral part of the other technological activities involving input, processing, output, and feedback. Students develop personal interests and analyze the impact of communication systems on people, society, and culture.

## GRAPHIC COMMUNICATION SYSTEMS - 1 UNIT (8494)

Grades 10-12
Prerequisite: Communications Systems
Graphic communications is a one-semester, single-period course which deals with printed images such as newspapers, books, printed T-shirts, signs, photographs, wallpaper, or stationery. Students use a variety of graphic arts equipment and processes to make visual projects with different materials. Students design, plan, and reproduce products similar to those produced by the graphic arts industry. Cameras, printing presses, and copy machines are among the many equipment items used.

## TECHNICAL DRAWING AND DESIGN - 1 UNIT (8435)

## Grades 9-12

Prerequisite: None
This is a one-semester, single-period foundation course in which students experience the basic language of industry and technology. Students design, sketch, and make technical drawings, models, or prototypes of real design problems. The course is recommended for future engineering and architecture students.

## ARCHITECTURAL DRAWING AND DESIGN - 1 UNIT (8437)

Grades 10-12
Prerequisite: Technical Drawing
Architectural Drawing is a one-semester, single-period course which provides students the opportunity to learn about the principles of working drawings and construction techniques. Experiences include residential and commercial building designs, rendering, model making, structural details, and community planning. Students use computer-aided drawing and design (CADD) equipment and established standards or codes.

## GEOSPATIAL - 1 UNIT (8423)

Grades 9-12
Prerequisite: None
The Geospatial Technology program provides experiences pertaining to the study and use of geographic information systems (GIS), global positioning systems (GPS), remote sensing (RS), and mobile technologies. Fundamentally, these technologies allow students to explore and analyze the natural and human-made world, from local to global and beyond. Students use various tools, processes, and techniques to create, store, access, manipulate, and revise data to solve human challenges. These experiences employ real-world spatial analysis models and guidelines for integrating, interpreting, analyzing, and synthesizing data, with a focus on both the implications and the limitations of such technologies. These experiences also include interfacing to network-based data management systems

## PRODUCTION SYSTEMS - 1 UNIT (8447)

Grades 10-12
Prerequisite: None
Students in this one-semester, single-period laboratory course design, build, and test scale-model structures, working with projects that help them to understand the jobs of architects, carpenters, electricians, plumbers, surveyors, contractors, masons, design engineers, and a variety of other construction careers. (This course is a companion to Manufacturing Technology).

## MANUFACTURING SYSTEMS - 1 UNIT (8425)

Grades 10-12
Prerequisite: Production Systems
Students in this one-semester, single-period course organize and operate a manufacturing company to explore careers and work habits typical of American industry's free enterprise system. Students make projects or products in the company that can be sold, while experiencing the work of planners, designers, engineers, machine operators, personnel managers, and a variety of other manufacturing careers. (This course is a companion to Construction Technology).

## TECHNOLOGY FOUNDATIONS - 1 UNIT (8403)

Grades 9-12
Prerequisite: None
In Technology Foundations, students in this one-semester, single-period course acquire a foundation of knowledge in technological material, energy, and information and apply processes associated with the technological thinker. Laboratory activities engage students in creating new ideas and innovations, building systems, and analyzing technological products to learn further how and why technology works. Working in groups, students build and control systems with engineering in the development of a technology.

## TECHNOLOGY TRANSFER - 1 UNIT (8405)

Grades 10-12
Prerequisite: Technology Foundations

In Technology Transfer, students in this one-semester, single-period course work with various computers and materials on projects that combine systems such as production, energy, communications, transportation, and other technologies. Students use math, science, and communication in designing and building a computer device or an energy efficient vehicle. Thematic activities engage students in community problems where they transfer the technological method to address recycling, space exploration, and housing.

## PRINCIPLES OF TECHNOLOGY I - 1 UNIT (9811)

Grades 10-12
Prerequisite: 2 Lab Sciences \& Algebra I
Students in this one-semester, single-period course apply physics and math principles through a unified systems approach for a broad knowledge base of the principles underlying modern technical systems. This course covers seven technical principles: force, work, rate, resistance, energy, power, and force transformers, emphasizing how each principle plays a unifying role in the operation of mechanical, fluid, electrical, and thermal systems in high-tech equipment.

## PRINCIPLES OF TECHNOLOGY II - 1 UNIT (9812)

Grades 10-12
Prerequisite: Principles of Technology I
Students in this one-semester, single-period course build on the knowledge base developed in Principles of Technology I while applying math and physics principles of problem solving activities. They are provided a further understanding of the principles of mechanical, fluid, electrical, and thermal systems that demonstrate the basic principles of physics, dividing them into seven units: Momentum, Waves and Vibrations, Energy Converters, Transducers, Radiation, Light and Optical Systems, and Time Constants.*

* Students who have completed two science courses prior to taking this sequence and who successfully complete both Principles of Technology I and Principles of Technology II may receive a Physics credit for Principles of Technology II. Principles of Technology I count as an elective credit.


## TELEVISON AND MEDIA PRODUCTION I - 2 UNITS (8688)

Grades 9-12
Prerequisite - none
In this course, students will engage in hands-on digital media production while using industry-standard equipment and software. They will learn how to work as media producers and explore careers in the dynamic industry of digital media production.

## TELEVISION AND MEDIA PRODUCTION II - 2 UNITS (8689)

Grades 10-12
Prerequisite - (8688)
This course builds upon knowledge and skills from Television and Media Production I. Students will generate fiction and non-fictional media content. Students will enhance their digital media production skills by entering the studio and control room and become proficient with industry-standard equipment and software. They put their knowledge of digital media production into action with use of sophisticated tools and equipment as they begin to develop their personal portfolios

## TELEVISION AND MEDIA PRODUCTION III - 2 units (8690)

## Grades 11-12

Prerequisite - (8689)
This course builds upon knowledge and skills from Television and Media Production I and II. Students will demonstrate mastery of media production knowledge and skills. They will create original productions, assemble a
professional digital portfolio, and investigate the dynamic media production industry. Students will research postsecondary opportunities and formulate strategies for both college and career success.

## TRADE AND INDUSTRIAL EDUCATION

Trade and Industrial Education programs are designed to develop occupational skills, knowledge, attitudes, and work habits that prepare students to become employed and progress satisfactorily in the trade and industrial field as skilled or semi-skilled craftspersons.

## AUTOMOTIVE TECHNOLOGY I (8506)

Grade: 10-11
Prerequisite - None

In this course, students explore, handle, and perform basic functions in engine repair, automatic transmission and transaxle, manual drive train and axles, suspension and steering systems, and brakes. Students who successfully complete the Automotive Technology program may be eligible to take the Automotive Service Excellence (ASE) Student Certification examination. The ASE Student Certification is the first step in building a career as a service professional in the automotive industry.

## AUTOMOTIVE TECHNOLOGY II (8507)

## Grade: 11-12

Prerequisites: Automotive I 8506

In this course, students build upon their basic knowledge of automotive technology, exploring more advanced tasks in engine repair, automatic transmission and transaxle, manual drivetrain and axles, suspension and steering systems, and brakes. They also learn about electrical, electronic, and HVAC systems in automobiles. Upon successful completion of the course, students may be eligible to take the Automotive Service Excellence (ASE) Student Certification examination.

## BUILDING MANAGEMENT - 1 UNIT (8590)

Grades 9-12
Prerequisite: None
This is a one-semester, single-period course in which students learn to service a variety of structures including commercial and industrial buildings and mobile homes. Basic maintenance and repair skills related to the air conditioning, heating, plumbing, electrical, and other mechanical systems are included in the instruction.

## BUILDING TRADES (8515)

## Grades 10-11

Prerequisite: None
Building Trades I introduces students to skills in the four core areas of residential construction: masonry, carpentry, electricity, and plumbing. Students emphasize safety by earning the Construction Industry Occupational Safety and Health Administration (OSHA) 10 card as they build or repair residential structures, using a variety of materials and tools. Students will also learn current residential building codes associated with the trades. Contextual instruction and student participation in co-curricular career and technical.

## BUILDING TRADES II (8516)

## Grade 11-12

Prerequisite: Building Trades (8515)

Building Trades II teaches students advanced skills in masonry, carpentry, electricity, and plumbing. The class prepares students to synthesize these valuable skills to build or repair residential structures, using a variety of materials and tools. Students will also learn current residential building codes associated with the trades. Contextual instruction and student participation in co-curricular career and technical student organization (CTSO) activities will develop leadership, interpersonal, and career skills. High-quality work-based learning (HQWBL) will provide experiential learning opportunities related to students' career goals and/or interests, integrated with instruction, and performed in partnership with local businesses and organizations.

## COSMETOLOGY I - 2 UNITS (8745) Two Year Program

## Grades 10-11

Prerequisite: None
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 manikins for manipulative skill practice. The first-year course emphasizes personal safety, professionalism, and sanitation and disinfection of equipment and facilities. Students develop skills in shampooing and conditioning hair, as well as styling and cutting hair. They are introduced to chemical texture services and develop skills in manicure and pedicure procedures.

## COSMETOLOGY II - 2 UNITS (8746) Two Year Program

Grades 11-12
Prerequisite: Cosmetology I (8745/36 Weeks)
In this continuing course, students build on their theoretical foundation of general sciences and practices in cosmetology to increase proficiency in hair cutting and styling on live models, with attention to professionalism, client consultation, safety, and infection control. Students are trained in safe chemical processes related to permanent waves, relaxers, lightening, and coloring hair. In addition, students learn to care for skin, hands, and feet, developing experience in providing facials, manicures, pedicures, and nail enhancements. Students will be introduced to a business management unit with a focus on managing the salon.

## INDUSTRIAL COOPERATIVE TRAINING - 2 UNITS (8904)

Grades 11-12
Prerequisite: None
In Industrial Cooperative Training (ICT), students in this one-semester, one-period course have the opportunity to prepare for employment related to the many fields within the areas of trade, industrial, or technical occupations. Each student receives on-the-job training and instruction related to his or her chosen trade area. The teacher-coordinator and the student's employer design a training plan to develop the student's entry-level skills using the V-Tecs Curriculum Development Program.

## MASTER BARBER I (8743) Two year program

Grade 10-11
Prerequisite - None
This introductory course is designed for students pursuing a career as a master barber. Students will demonstrate knowledge and skills in a clinical lab setting, using mannequins and live models for manipulative practice. The program emphasizes personal safety, professionalism, scalp and hair care, hair cutting, styling, lightening and coloring, shaving, and barbershop management. Contextual instruction and student participation in co-curricular career and technical student organization (CTSO) activities will develop leadership, interpersonal, and career skills. High-quality work-based learning (HQWBL) will provide experiential learning opportunities related to students' career goals and/or interests, integrated with instruction, and performed in partnership with local businesses and organizations.

## MASTER BARBER II (8744)

Grade 11-12
Prerequisite - Barbering 8743

In this advanced course, students build on their theoretical foundation of general sciences and practices in barbering to increase proficiency in hair cutting and styling on live models, with attention to professionalism, client consultation, safety, and infection control. Students are trained on safe chemical processes related to chemical texture services and advanced hair coloring techniques. They also develop artistic skills with wigs and hair additions. An advanced business management unit focuses on creating a barbershop business plan. Completion of this course prepares the student for the Virginia State Licensing Exam.

NAIL TECHNICIAN I - 2 UNITS (8692)
Grades 11-12
Prerequisite: None
Students learn to manicure, pedicure, install and maintain artificial nails, and apply concepts associated with bacteriology, sanitation, nail disorders, anatomy and physiology, and safety. Completion prepares students for the Virginia state licensing examination in Nail Technician.

## NAIL TECHNICIAN II - 2 UNITS (8693)

Grade 11-12
Prerequisite: Nail Technician I (8692)
Students learn to manicure, pedicure, install and maintain artificial nails, and apply concepts associated with bacteriology, sanitation, nail disorders, anatomy and physiology, and safety. Program completion prepares students for the Virginia state licensing examination in Nail Technician

# ENGLISH 

## READING LAB

Grade 7
Prerequisite: Language Arts 6
The Reading Links course is designed to help students improve their abilities to understand what they read, improve reading fluency, and enhance critical thinking capacities. Students who did not pass the sixth grade reading SOL test or who earned a C or D in Language Arts 6 may qualify to be enrolled. Students who are weak in English 7 may be considered. This one-semester course addresses motivation, vocabulary development, fluency, and comprehension strategies that help students become highly skilled, independent readers.

## ENGLISH 7 (1110)

Grade 7
Prerequisite: Language Arts 6
This course continues the integrated study of reading selections by emphasizing the literary elements appropriate for the age and maturity of seventh graders. Skills are further developed in reading, writing, critical thinking, language usage, speaking, and writing. Using the writing process, students explore a variety of writing experiences that further develop skills in creative and functional writing.

## HONORS ENGLISH 7 (1110H)

Grade 7
Prerequisite: Language Arts 6
The English Seven Honors course emphasizes the recognition of story elements - plot, characterization, setting, point of view, and theme. Students will also gain experience in analyzing various literary forms of prose and poetry as they relate readings to their own experiences. Students will develop a better grasp of sentence structure, a variety of paragraph development techniques, vocabulary development, and appropriate grammatical conventions as they use the writing process. Skills will be developed through various activities requiring higher levels of listening, thinking, and speaking.

## ENGLISH 8 (1120)

Grade 8
Prerequisite: English 7
English Eight is designed to help students gain increased skills and satisfaction from their reading, writing, critical thinking, speaking, and listening. The student begins to study the structure of the language and how language works. Functional literacy skills are also emphasized.

## HONORS ENGLISH 8 (1120H)

Grade 8
Prerequisite: English 7
The Honors English Eight course provides opportunities for students to evaluate and relate reading and writing to their own experiences as well as to current and historical world events. The literature read will also enable students to explore and respond to contributions of literature from their own as well as from other cultures.

Students will use the process approach to writing with an emphasis on descriptive and narrative writing. Writing will also be used as a means of substantiating learning and as a means of discovering self and formulating relationships with others. The mechanics of writing will be taught through the writing process.

## ENGLISH 9-1 UNIT (1130)

Grade 9
Prerequisite: English 8
This course is designed to help students increase their skills in reading, writing, critical thinking, speaking and listening. Emphasis is placed on the development of good sentences and paragraphs through short narratives, persuasion essays, descriptive pieces, and friendly letters as a means of producing ease in expression. Reading skills are developed through the use of various types of literature offered for pleasure and appreciation. Functional literacy skills are also emphasized. The course is aligned to emphasize the development of the core skill sets of the Profile of a Virginia Graduate to establish multiple paths toward college and career readiness for students.

## HONORS ENGLISH 9 - 1 UNIT (1130H)

Grade 9
Prerequisite: English 8 for students who have passed with a grade of A or B.
The Honors English Nine course emphasizes extensive vocabulary study, basic English skills, classical mythology, and a comprehensive study of genres in literature. Vocabulary development focuses on the study of advanced word lists, analogies, roots and affixes. The writing program includes the refinement of basic composition structures and the introduction of longer essays. The mastery of standard usage and grammatical skills is acquired through the writing process. Students will write clearly and use writing to communicate effectively. The course is aligned to emphasize the development of the core skill sets of the Profile of a Virginia Graduate to establish multiple paths toward college and career readiness for students.

## ENGLISH 10-1 UNIT (1140)

Grade 10
Prerequisite: English 9
In English Ten, in addition to sentence and paragraph development, accuracy, clarity, and logic are stressed as the student is introduced to the modes of writing with an emphasis on persuasion. Short stories, poems, drama, the novel, and non-fiction selections are included in the offerings in literature. Students will analyze literary selections based on the author's treatment of syntax, diction, point of view, figures of speech, tone, imagery and other literary elements. The course is aligned to emphasize the development of the core skill sets of the Profile of a Virginia Graduate to establish multiple paths toward college and career readiness for students.

## HONORS ENGLISH 10 - 1 UNIT (1140H)

Grade 10
Prerequisite: English 9
The Honors English Ten course will enable students to acquire greater understanding and appreciation of literary elements and techniques of a variety of literary genres, which illustrate beliefs of diverse people. Readings will also include biographical and autobiographical works. The student will also gain knowledge of vocabulary concepts related to language use and literature, including analogies, context clues, inferences, and commonly misused words.
The student will produce writings in the four forms of discourse: narration, description, exposition and with an emphasis upon persuasion. Opportunities for interactive technology and creative writing are included in the curriculum, with additional writings requiring enhanced research and literary criticism. Students will apply specific grammatical concepts to their writing: proper coordination, transitional devices, sentence structure, usage, and mechanics. The course is aligned to emphasize the development of the core skill sets of the Profile of a Virginia Graduate to establish multiple paths toward college and career readiness for students.

## ENGLISH 11-1 UNIT (1150)

Grade 11
Prerequisite: English 10
This course is designed to provide more advanced work in sentence and paragraph development and a greater variety of composition using critical skills which include using persuasion, research techniques and writing business letters. The literature, which traces the development of America, offers many opportunities for the development of research techniques and an appreciation for American life and literature. Students will use the elements of rhetoric, style, and modes of discourse to analyze selected works. The course is aligned to emphasize the development of the core skill sets of the Profile of a Virginia Graduate to establish multiple paths toward college and career readiness for students.

## HONORS ENGLISH 11 - 1 UNIT (1150H)

Grade 11
Prerequisite: English 10
The Honors English Eleven course is both a literary survey of American literature and a developmental program of composition with emphasis upon persuasive writing, research and writing for life. This course is based on the chronological approach to literature and enables the student to gain realistic insight into the whole picture of American literature: Colonial times to present. The study of the language embraces the writing process as students express their ideas and images creatively in a variety of media.

In order to be fully aware of the trends and characteristics of each period as reflected in the works of major writers, students will supplement the regular class work by researching, compiling, and becoming familiar with major American writers, their British counterparts, and the impact of existing trends and ideas of writers during a given period. These facts will be well documented and will serve as a supplement for future references. The course is aligned to emphasize the development of the core skill sets of the Profile of a Virginia Graduate to establish multiple paths toward college and career readiness for students.

## ENGLISH 12-1 UNIT (1160)

Grade 12
Prerequisite: English 11
Advanced persuasive and research based writing on this level emphasizes all previous knowledge in grammar and composition. Techniques of research papers and workplace writing receive emphasis. Through a survey of English literature, students develop greater skills in reading and a better understanding of life and literature. The students are able to determine how a nation's history strongly influences its writers. The course is aligned to emphasize the development of the core skill sets of the Profile of a Virginia Graduate to establish multiple paths toward college and career readiness for students.

## ADVANCED PLACEMENT ENGLISH LANGUAGE - 2 UNITS (11959)

Grades: 10-12
Prerequisite: English 9
AP English Language and Composition is an introductory college-level composition course. Students cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situation, claims and evidence, reasoning and organization, and style.

## ADVANCED PLACEMENT ENGLISH LITERATURE - 2 UNITS (11969)

Grades: 10-12
Prerequisite: English 9
AP English Literature and Composition is an introductory college-level literary analysis course. Students cultivate their understanding of literature through reading and analyzing texts as they explore concepts like character, setting, structure, perspective, figurative language, and literary analysis in the context of literary works.

## JOURNALISM I - 1 UNIT (1200)

## Grades 9-12

Prerequisite: None

Journalism stresses individual expression through the study and application of techniques needed for journalistic writing. This course also serves as a laboratory for the production of the school newspaper. Any student interested in enrolling in the journalism class should a strong English background, and have the approval of the journalism instructor before signing up for the course. This is primarily a course for students in the eleventh and twelfth grades, but students in the ninth and tenth grades are accepted.

## JOURNALISM II - 1 UNIT (1210)

Grades 10-12
Prerequisite: Journalism I
This course reinforces the journalistic skills taught in Journalism I and provides numerous opportunities for students to apply these skills in school and community writing and media projects. Students will discover how journalistic skills enhance the other content areas. Students will apply these skills in the production of works which will reflect the content, tone, and design techniques of proficient students of journalism.

## CREATIVE WRITING - 1 UNIT (1171)

Grades 10-12
Prerequisite: None
Through the study of various types of writing and the application of varied techniques, students learn to develop proficiency in writing skills and are encouraged to develop creativity through the use of the writing process.

## HEALTH AND PHYSICAL EDUCATION

Health and Physical Education Courses are offered in each middle and high school in the city. Two units of credit and Health and Physical education are required for graduation and are taught in grades nine and ten. Regularly scheduled classes in Health and Physical Education helps student acquire the knowledge, processes, and skills needed to engage in meaningful physical, activity both in the present and for a lifetime. The State Board of Education encourages an equal focus ( $50 \%$ health and $50 \%$ physical education) on the health SOL and the physical education SOL. Students participating in physical education are required to wear appropriate attire for activity but not required to purchase a specific school gym uniform. Special populations are mainstreamed into the regular physical education and health program whenever appropriate. *Indicates courses that satisfy graduation requirements.

## HEALTH AND PHYSICAL EDUCATION 7 (7120)

Grade 7
Prerequisite: None
Students in grade seven generate and choose positive alternatives to risky behaviors. They use skills to resist peer pressure and manage stress and anxiety. Students are able to relate health choices to alertness, feelings, and performance at school or during physical activity. Students exhibit a healthy lifestyle, interpret health information, and promote good health. Family Life Education is included in the health education curriculum.

Students in grade seven continue to develop competence in modified versions of various game/sport, rhythmic, and recreational activities. They vary movement during dynamic and unpredictable game situations. Recreational pursuits, broadening lifelong physical activity options. The ability to analyze skill performance through observing and understanding critical elements (small, isolated parts of the whole skill or movement) is increasingly apparent, as is the application of basic scientific principles of anatomical structures, movement principles, energy balance, and personal
fitness. Students relate the importance of physical activity to health, focusing particularly on obesity and stress. Students achieve and maintain personal fitness standards and create plans by setting reasonable and appropriate goals for improvement or maintenance of health-related fitness. Students continue to develop social skills and cooperative behaviors by demonstrating problem solving, conflict resolution, communication skills, appropriate etiquette, integrity, and respect for others. Students may participate in various activities such as: Ultimate, Pillo Polo, Frisbee and Frisbee golf, Orienteering, Tchoukball, and Socci, Rhythmic activities, skill development and sport lead-up games.

## HEALTH AND PHYSICAL EDUCATION 8 (7200)

Grade 8
Prerequisite: None
Students in grade eight have an understanding of the origins and causes of diseases, including the relationship between family history and certain health risks. They begin to relate short- and long-term consequences of health choices and apply health skills to specific personal, family, and community health concerns. Students can discern relationships among all components of health and wellness and knowledgeably use consumer information. Family Life Education is included in the health education curriculum.

Students in grade eight demonstrate competence in skillful movement in modified, dynamic game/sport situations and in a variety of rhythmic and recreational activities. They transition from modified versions of movement forms to more complex applications across all types of activities. The grade-eight student applies knowledge of major body structures to explain how body systems interact with and respond to physical activity and how structures help the body create movement. Students will explain the relationship between nutrition, activity, and body composition to deepen understanding of energy balance. They will demonstrate socially responsible behavior as they show respect for others, make reasoned and appropriate choices, resist negative peer pressure, and exhibit integrity and fair play to achieve individual and group goals in the physical activity setting. Students are able to set goals, track progress, and participate in physical activities to improve health-related fitness. They have a repertoire of abilities across a variety of game/sport, dance, and recreational pursuits and begin to develop competence in specialized versions of lifelong game/sport activities. Students may participate in but are not limited to various activities such as: Socci, GeoMotion, Speed Stacking, Ping Pong, Team

Dodgeball, Frisbee and Frisbee golf, Orienteering, Tchoukball, Pickleball, Bocce Ball, Rhythmic activities, skill development and sport lead-up games.

## HEALTH AND PHYSICAL EDUCATION 9 ONLINE- 1 UNIT (7300)

Grade 9
Prerequisite: None
In this online course, students will gain an understanding of health through media-rich interactivities, videos, collaborative discussions hands-on applications, and real-world projects. The topics of study may include the following: nutrition principles, decision- making process, violence prevention, time management, conflict resolution, avoiding risky behaviors, community health, world issues, principles of fitness, CPR/AED/First Aid and physical activities that promote wellness. Along the way students will learn some terminology and concepts that are specific to health and physical education.

Physical education in grade 9 focuses on the following areas of study: competence in at least two self-selected, lifelong skill-related physical activities from individual, dual or team games/sport, dance and recreational activities, apply movement principles and concepts, personal fitness, apply FITT Principle, and demonstrate appropriate behaviors during physical activity settings. Students may participate in but are not limited to various activities such as: aerobic dance, badminton, basketball, orienteering, soccer, speedball, Wii, table tennis, volleyball, bowling, basketball, tennis, the use of pedometers and heart rate monitors.

## * HEALTH AND PHYSICAL EDUCATION 10-1 UNIT (7405)

Grade 10
Prerequisite: Health and Physical Education 9 (7300)
Thirty-six (36) hours of the classroom phase of driver education are included in the health instruction program. Students will use knowledge, processes, and skills learned in driver education, and receive guided practice from their parents to become competent users of the highway transportation system. Emphasis is placed on linking visual search skills, space management, and balanced vehicle movement to risk-reducing driving strategies. Significant attention is given to risk awareness, driver alertness, and responsible actions relative to occupant protection devices, positive interactions with other roadway users and the physical and psychological conditions that affect driver performance. Family Life Education is included in the health education curriculum.

Students in grade 10 physical education are engaging in fundamental movement skills and skill combinations and are working toward becoming competent in self-selected physical activities that they are likely to pursue throughout life including outdoor pursuits, fitness activities, dance and rhythmic activities, aquatics, selected individual performance activities, and net/wall and target games. They understand and apply concepts and principles of mechanics and anatomy in relation to human movement and apply the concepts and principles of the body's metabolic response to short-term and long-term physical activity. Students learn to become good leaders and good followers; they respect others, and anticipate and avoid unsafe physical activity situations. Students will develop the ability to understand and anticipate how physical activity interests and abilities change across a lifetime. Students demonstrate competency in lifelong physical activities and plan, implement, selfassess, and modify a personal fitness plan. Students are prepared to lead a physically active lifestyle. Students may participate in but are not limited to various activities such as: aerobic dance, badminton, basketball, orienteering, soccer, speedball, Wii, table tennis, volleyball, bowling, basketball, tennis, the use of pedometers and heart rate monitors.

## PERSONAL FITNESS (elective) 1 UNIT (7510)

Prerequisite: Completed Physical Education 9 (7300) and 10 (7405)
Personal Fitness is an elective physical education course that focuses on fitness, strength training, physical conditioning, and lifetime health concepts, activities and knowledge to promote health and wellness. This course is structured to develop individualized knowledge of weight training and physical conditioning for the beginning student and the advanced student. The course requires mastery of training principles and thorough understanding of fitness center safety rules prior to participation in weight room laboratory experiences. The course content is
presented so that teachers may select strategies and instructional techniques designed to improve muscular strength and endurance, flexibility, and cardiorespiratory endurance. Students will gain the necessary information and skills to plan and implement a personal fitness and conditioning program that includes skilland health-related fitness components to achieve and maintain a health-enhancing level of physical fitness for a lifetime. Various training models will be presented that allow flexibility of instruction among diverse student needs. Students will continue to implement and modify personal fitness and conditioning programs.

## MATHEMATICS

Course offerings in mathematics may vary slightly between schools, but each school offers a comprehensive program which provides the opportunity for college and/or technical preparation. Students capable of achieving success in a college preparatory program should arrange to take advanced mathematics courses. The recommended sequence in which the courses should be taken is: Algebra I, Geometry, Algebra II, Advanced Algebra/Trigonometry, followed by Mathematical Analysis or Advanced Placement Calculus. Also, depending upon the student's interest and plans for further study, consideration should be given to taking Computer Mathematics and/or Advanced Placement Statistics.

In all mathematics courses, the emphasis is on developing problem solving and reasoning skills, connecting mathematics to the real world, and communicating mathematically. Calculator and computer technologies are an integral part of the content of each course. However, facility in the use of technology shall not be regarded as a substitute for a student's understanding of quantitative concepts and relationships or for proficiency in basic computations.

## MATHEMATICS 7 (3111)

Grade 7
Prerequisite: Sixth Grade Mathematics
This course is designed to expand students' knowledge of numeration and number theory with emphasis on the application of the concepts of ratio and proportions. It includes computation, estimation, measurement, geometry, statistics, probability, patterns and functions, and the fundamental concepts of algebra. Problem solving is emphasized as a method of inquiry and application. Students will also identify real-life applications of the mathematical principles they are learning that can be applied to science and other disciplines.

## MATHEMATICS 7 HONORS (3111H)

Grade 7
Prerequisite:
The Mathematics 7H course is designed to prepare students to take Algebra I in the eighth grade. This course covers all Mathematics 7 and Mathematics 8 content during the seventh grade year. This is a mathematics course of general topics such as number systems, an introduction to algebra, and informal geometry. New concepts include solving multi-step equations, graphing linear equations, applying transformations to geometric figures, and using matrices to organize and interpret data. Students will also apply concepts learned to science and other disciplines. A foundation is provided to take Algebra I in the eighth grade and an opportunity for greater understanding of mathematical skills.. Problem solving is emphasized as a method of inquiry and application.

## MATHEMATICS 8 (3112)

Grade 8
Prerequisite: Seventh Grade Mathematics
This is a mathematics course of general topics such as number systems, an introduction to algebra, and informal geometry. New concepts include solving multi-step equations, graphing linear equations, applying transformations to geometric figures, and using matrices to organize and interpret data. Students will also apply concepts learned to science and other disciplines. A foundation is provided to take algebra and an opportunity for greater understanding of mathematical skills is given. Problem solving is emphasized as a method of inquiry and application.

## ALGEBRA I - 1 UNIT (3130)

Grades 7+
Prerequisite: Sixth, Seventh and/or Eighth Grade Mathematics
A modern treatment of basic ideas and the structure of algebra is offered including the number line, sets, variables, open sentences, positive and negative numbers, absolute value, equations, inequalities, polynomials, factoring algebraic expressions, coordinates in a plane, graphing of truth sets of equations and inequalities, irrational numbers, and the real number variation and quadratics. Students will use algebra as a tool for solving problems. Tables and graphs will be used to interpret and analyze concepts. Matrices will be used to organize and manipulate data. Calculators, computers, spreadsheets, and graphing utilities (graphing calculators or computer graphing simulators) will be used as tools to assist in problem solving.

## ALGEBRA I-A- (3131)

Grades 9-11
Prerequisite: Sixth, Seventh and/or Eighth Grade Mathematics
This is the first semester of a two-semester Algebra I course. It is designed for those students who need additional concrete experiences in developing essential mathematical skills. This course emphasizes an integrated, laboratory, activity-based approach to the study of algebra. The topics studied within the framework of the real number system include order of operations, evaluating expressions and formulas, factoring, operations with polynomials, solving equations, inequalities, matrices and graphing. Calculators, computers, and graphing utilities (graphing calculators, computer graphing simulators) will be used.
(Note: Students must successfully complete the second semester of this course, Algebra I-B, in order to meet the requirement for Algebra I credit.)

ALGEBRA I-B - (3132)
Grades 9-11
Prerequisite: Algebra 1-A
This is the second semester of a two-semester Algebra I course. It completes the study of Algebra I emphasizing an integrated, laboratory, activity-based approach. Algebra as a tool for problem solving is also emphasized. The topics studied include solving systems of equations and inequalities, operations with polynomials, functions, irrational numbers, quadratics, and graphing. Calculators, computers, and graphing utilities (graphing calculators, computer graphing simulators) will be used.
(Note: Students must successfully complete Algebra IA and this course in order to meet the requirement for Algebra I credit.)

## GEOMETRY - 1 UNIT (3143)

Grade 8 students will be awarded Honors weight
Prerequisite: Algebra I or Algebra I-A and Algebra I-B
This course emphasizes an integrated, inductive/intuitive approach to the study of geometry. Students investigate properties of figures in plane and space using constructions with compass, straightedge, paper folding, direct comparisons, and measurement. Topics studied include properties of congruent and similar figures, transformations, tessellations, area, and volume. The deductive axiomatic method of proof is used. However, many of the usual theorems of geometry and their consequences will be verified by methods other than formal proofs. Throughout the course, concepts and processes of geometry and measurement will be applied to modeling real world situations and to solving problems. Calculators, computers, and graphing utilities (graphing calculators, computer graphing simulators) will be used.

## GEOMETRY PART I - (3144)

Grades 9-12
Prerequisite: Algebra I or Algebra I-A and Algebra I-B
This is the first semester of a two-semester Geometry course. It is designed for those students needing additional concrete experiences in developing skills in algebraic reasoning required for mastering geometric concepts. The content includes that found in the first term of Geometry. Students investigate and solve problems with emphasis on an integrated, inductive approach, modeling real world situations.
(Note: Students must successfully complete the second semester of this course, Geometry Part II, in order to meet the requirement for Geometry credit.)

GEOMETRY PART II - 1 UNIT (3145)
Grades 9-12
Prerequisite: Geometry, Part I
This is the second semester of a two-semester Geometry course. The content includes that found in the second term of Geometry and completes the study of Geometry. Elements of plane, solid and coordinate geometry are studied. Manipulative's and appropriate technologies will be used.
(Note: Students must successfully complete Geometry Part 1 and this course in order to meet the requirement for geometry credit.)

## ALGEBRA, FUNCTIONS AND DATA ANALYSIS - 1 UNIT (3134)

## Prerequisite: Geometry Note: This course cannot be taken after Algebra II

Through the investigation of mathematical models, this course is designed for students to strengthen conceptual understandings in mathematics and further develop connections between algebra and statistics. 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 is generated by practical applications from science, business, and finance. Problems will require the formulation of linear, quadratic, exponential, logarithmic equations, or a system of equations. The infusion of technology (graphing calculator, computer software) in the course will assist in modeling and investigating functions and data analysis.

## ALGEBRA II - 1 UNIT (3135)

Grade 9 students will be awarded Honors weight
Prerequisite: Geometry
This course is designed to provide a comprehensive study of advanced algebraic concepts. Topics include the study of functions, polynomials, rational expressions, complex numbers, matrices, sequences, and series. Many topics are introduced and/or developed that are key factors in further study of mathematics. Emphasis is placed on practical applications, modeling, oral and written communications concerning the language of algebra, logic of procedures, and interpretation of results. Graphing utilities and spreadsheets will be used by teachers and students.

## DATA SCIENCE - 1 UNIT (02911)

Prerequisite: Algebra Functions OR Algebra II
The Data Science Standards of Learning provide an introduction to the learning principles associated with analyzing big data. Through the use of open source technology tools, students taking a course based on the Data Science Standards of Learning will identify and explore problems that involve the use of relational database concepts and data-intensive computing to find solutions and make generalizations. Students will engage in a data science problem-solving structure to interact with large data sets as a means to formulate problems, collect and clean data, visualize data, model using data, and communicate effectively about data formulated solutions.

## TRIGONOMETRY - 1 UNIT (3150H)

## Grades 10-12

Prerequisite: Algebra II

A thorough treatment of trigonometry will be provided through the study of trigonometric definitions, applications, graphing, and solving trigonometric equations and inequalities. Emphasis should also be placed on using connections between right triangle ratios, trigonometric functions, and circular functions. In addition, applications and modeling should be included throughout the course of study. Emphasis should also be placed on oral and written communication concerning the language of mathematics, logic of procedure, and interpretation of results.

Graphing calculators, computers, and other appropriate technology tools will be used to assist in teaching and learning. Graphing utilities enhance the understanding of realistic applications through modeling and aid in the investigation of trigonometric functions and their inverses. They also provide a powerful tool for solving and verifying solutions to trigonometric equations and inequalities.

## ADVANCED PLACEMENT PRECALCULUS - 2 UNITS (31769)

Grades 10-12
Prerequisite: Algebra II
In AP Precalculus, students explore everyday situations using mathematical tools and lenses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. They will learn how to observe, explore, and build mathematical meaning from dynamic systems, an important practice for thriving in an ever-changing world. AP Precalculus prepares students for other higherlevel mathematics and science courses. The framework delineates content and skills common to college precalculus courses that are foundational for careers in mathematics, physics, biology, health science, social science, and data science.

## HONORS MATHEMATICAL ANALYSIS - 1 UNIT (3162H)

Grades 11-12
Prerequisite: Algebra II
Mathematical Analysis is designed to present principles of higher mathematics while reviewing traditional material. Mathematical Analysis is a study of functions, complex number systems, set notation, number theory, and computer applications. Work with limits, derivations, and integrals is emphasized to prepare students for calculus. Graphing utilities (graphing calculators or computer graphing simulators) will be used by students and teachers.

## ADVANCED PLACEMENT CALCULUS AB - 2 UNITS (31779)

Grade 12
Prerequisite: Trigonometry or Mathematical Analysis
Advanced Placement Calculus AB is a course designed for students who have a thorough knowledge of algebra, geometry, and trigonometry. Topics taught include properties of functions, limits, derivations, definite/indefinite integrals and their applications in problem solving. Elementary differential equations, sequences and series are also studied. This course content is determined by the Advanced Placement Course Description Syllabus published by the College Board. Students successfully completing AP Calculus will take the College Board Advanced Placement Examination. As mandated by the College Board, graphing calculators are required for this course.

## ADVANCED PLACEMENT STATISTICS - 1 UNIT (31929)

Grades 10-12
Prerequisite: Algebra II
The purpose of the Advanced Placement Statistics course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual
themes: (1) Exploring Data - observing patterns and departures from patterns, (2) Planning a Study - deciding what and how to measure, (3) Anticipating Patterns in Advance - producing models using probability and simulation, (4) Statistical Inference - confirming models. The fundamental tool of data analysis is the computer. Therefore, students and teachers will utilize the computer with an appropriate software package for work in and outside the classroom. Graphing calculators will also be used. Students successfully completing this course will take the College Board Advanced Placement Examination.

# PERFORMING ARTS 

## DANCE EDUCATION

General Dance (9319), Fall or Spring Semester (1 unit each semester) Prerequisite: None

The student will be introduced to the basic principles of movement which includes the following: isolation of body parts, proper body alignment, balance, elevation, fall and recovery, and moving through space while maintaining proper body alignment. Basic dance techniques knowledge (including Ballroom dance), terminology, general anatomy, kinesiology, movement history, and nutrition will also be addressed. This semester-long course will introduce students to Pilates, Yoga, Cardio, and strengthening movement techniques. Any Portsmouth Public School division high school student may take this course.

## Performing Arts Academy: Dance Program

Any Portsmouth Public School division high school student may apply for admission to the Dance Program. The program is housed at Churchland High School. Acceptance into the program is achieved through the submission of a completed written application, a successful audition and interview, and the program facilitator recommendation. Students selected for the program who reside outside of the Churchland High School zone must receive a zone waiver.

This four year sequential progressive program consists of Levels 1, 2, 3, and 4 and is designed for exceptionally talented students who are willing to make a serious and dedicated commitment to dance education. The major goal is to develop dance skills. Dance students will engage in a thorough study of dance history, musculoskeletal anatomy, kinesiology, physiology, health and nutrition, injury prevention, technique, choreography, and performance techniques. Students will perform as a solo performer and as a member of an ensemble in and/or outside of the classroom. Participation expectations include in-school and after-school rehearsals and performances.

## Performing Arts Academy: Dance I (9321), Fall and Spring Semester Participation Required (2

 units per school year) Prerequisite: Submission of a completed written application and zone waiver (if applicable), teacher recommendations, the successful completion of an audition and interview, and the program facilitator recommendation.The student will explore various dance knowledge and skills at the beginner's level. Student learning includes the development of kinesthetic awareness; knowledge of proper body alignment, physical strength, flexibility, and endurance; and the awareness of and proper use of appropriate dance terminology. The student will gain knowledge of choreographic and performance principles. The foundations of dance elements and skills will be addressed along with proper execution of various movements for optimal performance and injury prevention. The student will gain an awareness of the general anatomical make of the human body and how it functions. The importance of hydration and healthy eating habits will be explored. The student will engage in various forms of assessment.

## Performing Arts Academy: Dance II (9323), Fall and Spring Semester Participation required (2 units per school year) Prerequisite: Successful Completion of PAA Dance I \& the recommendation of the program facilitator.

The student will review beginning level dance concepts, techniques, and literature. The student will progress to an intermediate level exploration of the skeletal and muscular systems. The student will apply health and nutritional information. The student will engage in various forms of assessment.

# Performing Arts Academy: Dance III (9325), Fall and Spring Semester Participation required (2 

 units per school year) Prerequisite: Successful Completion of CEVPA Dance II \& the recommendation of the program facilitator.The student will review intermediate level dance concepts, techniques, and literature. The student will progress to an advanced level of dance. More advanced study of the skeletal system (including bony landmarks) and the muscular system (including origin and insertion of each individual muscle in the body) will occur. The student will review health and nutritional information. The student will gain audition and knowledge and skills. The student will engage in various forms of assessment.

## Performing Arts Academy: Dance IV (9307), Fall and Spring Semester Participation <br> Required \{Unless an "Early Graduate"\} (2 units per school year - 1 unit per semester) Prerequisite: Successful Completion of CEVPA Dance III \& the recommendation of the program facilitator.

The student will review advanced level dance concepts, techniques, and literature. The student will progress to mastery level dance knowledge, techniques, and performance. A complete understanding of the musculoskeletal anatomy, its functions, and how to manipulate the body for maximum performance will be achieved. The student will demonstrate on an advanced level comprehension in kinesthetic awareness, proper body alignment, physical strength, flexibility, endurance, and terminology. The student will display an awareness of and application of nutritional information. The student will create a personal Dance Portfolio. The student will engage in a variety of assessments.

## MUSIC EDUCATION

Performance-based music classes are offered in the secondary schools. An additional course opportunity to be available in the 2022-2023 school year is Music Recording and Production. This course will be offered only at Churchland High School.

## Performance-based Classes

Secondary music performance classes are Beginning/Intermediate/Advanced/Artist Band, Chorus, and Orchestra. The course levels are identified as follows: Level I—Beginning, Level II—Intermediate, Level III—Advanced, Level IV-Artist. Levels are graded as follows: Beginning-Grades 1 and 2, Intermediate-Grades 3 and 4, Advanced- Grades 5 and some 6, Artist-Grade 6 only. Students develop competence skills through the study and performance of quality literature representative of a variety of musical styles. To benefit fully from the performance classes, the student needs to enroll in and make a commitment to the respective program throughout his/her high school career. Students are encouraged to maintain an above average or better level of academic achievement.

## BEGINNING BAND (92320) -Level I, Grades 1 and 2 music; Fall and Spring Term participation <br> required Prerequisite: None

Beginning Band - Level I is open to all students interested in entering the band program. After consultation with the band director, students are recommended to study a particular instrument. A mandatory instrument/program information meeting for the students and parent/guardian is held prior to the first class meeting.

Beginning Band Level I is a composite concert band class. Students study music of various historical periods and styles; develop tone quality, embouchure, and articulation techniques; are introduced to scales and fingering as well as drumming rudiments; and perform in concert band ensembles. As an integral part of all band classes, sight reading and ear training are emphasized.

School division-owned wind instruments and drum kits are available. The school division also provides consumables such as reeds, slide grease, cork grease, mouth pieces, and methods books at no charge to the student.
After-school rehearsals and performances are to be expected. Students are required to participate in school performances and All-City events. The All-City Assessment is a requirement. Optional events include participation in Virginia Music Educators Association (VMEA) sponsored events such as district ensemble auditions and assessments and the annual Portsmouth Public Schools Solo and Small Ensemble Competition.

## INTERMEDIATE BAND (92330) - Level II, Grades 3 and 4 music; Fall and Spring Term

 participation required (1 unit each semester) Prerequisite: Must have passed Beginning Band, completed summer band, or acquired the band director's recommendation.Building on Level I objectives, Level II objectives are studied using a variety of more challenging music. Intermediate Band - Level II is a composite band class. The building of technique and the refinement of musical concert performance are emphasized.

School division-owned wind instruments and drum kits are available. The school division also provides consumables such as reeds, slide grease, cork grease, mouth pieces, and methods books at no charge to the student.

After-school rehearsals and performances are to be expected. Students are required to participate in school performances and All-City events such as ensemble adjudications. Optional events include participation in Virginia Music Educators Association (VMEA) sponsored events such as district ensemble auditions and assessments and the annual Portsmouth Public Schools Solo and Small Ensemble Competition.

## ADVANCED BAND (92340) -Level III, Grades 5 and some 6 music; Fall and Spring Term participation required (1 unit each semester) Prerequisite: Audition and/or by band director's recommendation.

Advanced band is the formal study of all facets of band instruction including concert, jazz, pep, and marching. Instruction is based on the continuation of study of Level I and Level II objectives. New concepts and skills are introduced and mastered through the study of quality repertoire. The student must have a solid background in music fundamentals and the technique required for his/her respective instrument. Emphasis is placed on playing scales in all keys, performing all drumming rudiments, performing difficult rhythm patterns, sight reading challenging musical excerpts, and understanding and applying the performance style required by various types of music.

School division-owned wind instruments and drum kits are available. The school division also provides consumables such as reeds, slide grease, cork grease, mouth pieces, and methods books at no charge to the student.

After-school rehearsals and performances are to be expected. Students are required to participate in school performances and All-City events such as ensemble adjudications. Optional events include participation in Virginia Music Educators Association (VMEA) sponsored events such as district ensemble auditions and assessments, weekend festivals, outside concerts, competitions, and parades and the annual Portsmouth Public Schools Solo and Small Ensemble Competition.

Marching, jazz, and pep band skills and involvement are outgrowths of the concert band program. These styles, when taught within the concert band class, are classified as extracurricular activities. In marching band, marching style may vary from building to building and is the director's choice. It is taught in addition to ensemble playing. Jazz band within the concert band class affords students the opportunity to experience activities that foster the development of improvisation skills through the exploration of a variety of jazz literature. Pep band supports school functions such as athletic events.

While marching, jazz, and pep band are important facets of band instruction at this level, the primary emphasis is concert band musicianship and artistic performance.

## BEGINNING ORCHESTRA (92370) - Level I, Grades 1 and 2 music; Fall and Spring Term participation required Prerequisite: None

Beginning Orchestra - Level I is open to all students interested in entering the strings program. After consultation with the orchestra director, students are recommended to study a particular instrument. A mandatory instrument/program information meeting for the students and parents/guardians is held prior to the first class meeting.

School division-owned string instruments, methods books, and consumables such as rosin, strings, roc stops are available at no charge to the student.

This course is a composite orchestra class where skills and techniques in bowing, fingering, and instrument care are taught. Sight reading and ear training are emphasized. After-school rehearsals and school and division performances are to be expected. Students are required to participate in All-City events such as the AllCity Assessment Event. Optional events include participation in Virginia Music Educators Association (VMEA) sponsored events such as district ensemble auditions and assessments, weekend festivals, outside concerts, competitions, and the annual Portsmouth Public Schools Solo and Small Ensemble Competition. Virginia Music Educators Association (VMEA) sponsored events such as regional orchestra auditions and participation promote student growth and development.

## INTERMEDIATE ORCHESTRA (92380) - Level II, Grades 3 and 4 music; Fall and

 Spring Term participation required, (1 unit each semester) Prerequisite: Must have passed Beginning Orchestra, or completed summer orchestra, or acquired the orchestra director's recommendation.Building on Level I objectives, Level II objectives are studied using a variety of more challenging music and mastering concepts and skills presented in the methods book. The building of technique and the refinement of musical performance are emphasized. Intermediate Orchestra - Level II is a composite strings class. The building of technique and the refinement of musical performance are emphasized.

School division-owned string instruments, methods books, and consumables such as rosin, strings, roc stops are available at no charge to the student.

After-school rehearsals and school and division performances are to be expected. Students are required to participate in All-City events such as the All-City Assessment Event. Optional events include participation in Virginia Music Educators Association (VMEA) sponsored events such as district ensemble auditions and assessments, weekend festivals, outside concerts, competitions, and the annual Portsmouth Public Schools Solo and Small Ensemble Competition. Virginia Music Educators Association (VMEA) sponsored events such as regional orchestra auditions and participation promote student growth and development.

ADVANCED ORCHESTRA (92390) - Level III, Grades 5 and some 6 music, Fall and Spring Term participation required (1 unit each semester) Prerequisite: Must have passed Intermediate Orchestra or acquired the orchestra director's recommendation

Building on Levels I and Level II objectives, Level III objectives are addressed using more challenging music. The building of technique and the refinement of musical performance are emphasized. The student should have a solid background in music fundamentals and in the special technique required for the instrument being studied. Emphasis will be placed on the student's ability to play scales in all major keys, six minor key arpeggios, and specific chromatic scales. Additionally, the student will sight read challenging music excerpts and demonstrate through performance string nuances (i.e. vibrate, intonation, slurring, pizzicato.)

School division owned string instruments, methods books, and consumables such as rosin, strings, roc stops are available at no charge to the student. After-school rehearsals and school and division performances are to be expected. Students are required to participate in All-City events such as the All-City Assessment Event. Optional events include participation in Virginia Music Educators Association (VMEA) sponsored events such as district ensemble auditions and assessments, weekend festivals, outside concerts, competitions, and the annual Portsmouth Public Schools Solo and Small Ensemble Competition. Virginia Music Educators Association (VMEA) sponsored events such as regional orchestra auditions and participation promote student growth and development.

## BEGINNING CHORUS (92600) - Level I, Grades 1 and 2 music, Fall and Spring Term participation required Prerequisite: None

Beginning Chorus- Level I is open to all students interested in entering the choral program. As an entrylevel course, students will be introduced to basic vocal fundamentals with emphasis on group techniques for building diaphragmatic breathing and choral tone. Basic music reading and ear training skills will be taught. Student knowledge of his/her own vocal behavior, especially characteristics of the changing voice (cambiata), is emphasized. The student will sing in an ensemble using age appropriate music from traditional choral repertoire (unison, two-part, and three-part music).

Participation in after-school rehearsals, outside concerts, festivals, and All-City events such as the All-City Choral Assessments are required. Participation in Virginia Music Educators Association (VMEA) sponsored events is expected but not required. An additional performance opportunity is the Portsmouth Public Schools Solo and Small Ensemble Competition.

## INTERMEDIATE CHORUS (92850) - Level II, Grades 3 and 4 music, Fall and Spring Term participation required (1unit each semester) Prerequisite: Must have passed Beginning Chorus or choral director's recommendation

Intermediate Chorus-Level II is a continuation of the study of vocal fundamentals and music reading and ear training skills introduced at Level I. It is the continuation of the objectives of Level I with the study of more challenging music. This level of study emphasizes the building of technique and the refinement of musical performance. The student will sing in an ensemble using age appropriate music from traditional choral repertoire (unison, two-part, three-part, and four-part music).

Participation in after-school rehearsals, outside concerts, festivals, and All-City events such as the All-City Choral Assessment are required. Virginia Music Educators Association (VMEA) sponsored events participation is expected but not required. An additional performance opportunity is the Portsmouth Public Schools Solo and Small Ensemble Competition.

## ADVANCED CHORUS (92890) - Level III, Grades 5 and some 6 music, Fall and Spring Term

 participation required (1 unit each semester) Prerequisite: Successful completion of Level II, audition, and/or audition/recommendation by choral directorThe advanced chorus student performs music of a difficult nature from the medieval period to contemporary choral literature. A high degree of performance ability and the mastery of vocal and choral concepts, artistic expression, and sight-reading and ear training proficiency are expected.

Participation in after-school rehearsals, outside concerts, festivals, and All-City events such as the All-City Choral Assessment are required. Virginia Music Educators Association (VMEA) sponsored events participation is expected but optional. An additional performance opportunity is the Portsmouth Public Schools Solo and Small Ensemble Competition.

## MUSIC PRODUCTION AND RECORDING PROGRAM (05123)

This program will provide rigorous, sequential instruction that will enable the student to successfully engage in the field of Music Production and Recording. The program will address the needs of students ranging from those considering selecting it as a career to those who would like to use it for personal enjoyment only (creating "beats," for example).

The program is a work in progress and is being designed to meet the needs of all interested Portsmouth Public School Division students. The first level will be piloted this coming school year. It will be a stand-alone course where the student will experience a progressive continuous learning method that will cover historical and theoretical content alongside practical and technical skills exposure and expertise. Level appropriate instruction in music theory, composition, and analysis; sight singing, ear training, and dictation; keyboard harmony and score study; literature and history based listening--all facilitated by the use of technology--will be provided daily in an integrated manner.

## THEATRE ARTS

Students will experience a "tactile" approach to theatre in the areas of dramatic interpretation, play analysis, technical construction, play production and evaluation. Elements of theatre that are studied include scenic design, voice and diction, improvisation, and kinesics. A high level of commitment and personal maturity are required. The program fosters a cohesive and supportive atmosphere for intellectual, personal, and artistic growth.

## DRAMATICS - 1 UNIT (1410)

Grades 10-12
Prerequisite: None
Dramatics stresses aesthetic appreciation and individual expression through its introduction to the fundamentals of drama: history, play production, acting, directing, criticism, and the mass media. It serves as a workshop for dramatic productions in the school.

## ADVANCED DRAMATICS - 1 UNIT (1440)

Grades 11-12
Prerequisite: Dramatics or Successful Audition
Advanced dramatics is provided for the students who wish to pursue the study of drama in more depth. Emphasis is on acting, character creation, costuming, make-up, directing, and theater management.

## SCIENCE

The science program in grades $7-12$ is a coordinated part of an overall K-12 sequential program. The major goal of the laboratory-oriented program is to develop scientifically literate individuals. Scientific literacy involves the mastery of science concepts and skills along with the development of attitudes and interests that are necessary to meet the general goals of all education.

The courses at each level are designed to provide opportunities for students to experiment, investigate, participate, and explore in many areas of study consistent with their abilities, needs, and interests. The courses are also designed to benefit those students who plan to terminate their education at the high school level, as well as for those who will further their education.

## LIFE SCIENCE (4115)

## Seventh Grade

Prerequisite: None
Life Science serves as an introduction to the basic principles of biology. Through the use of laboratory activities and experiments, scientific principles are reinforced, and students solve problems concerning the biosphere.

## PHYSICAL SCIENCE (4125)

## Eighth Grade

Prerequisite: None
This course is an introduction to the basic principles of chemistry and physics. Through the use of laboratory activities and experiments, scientific principles are reinforced, and students solve problems concerning the physical environment.

## SCIENTIFIC RESEARCH \& DESIGN - STEM STUDENTS - 1 UNIT (46101H) -Elective credit ONLY <br> Ninth grade - I. C. Norcom High School ONLY; AC-13 course: Application process <br> Prerequisite: Students who have completed the middle school STEM program

Experimental Design/Science Skills is a laboratory course that includes strategies to identify the independent and dependent variables, controls, constants, and cause-effect relationships, as well as laboratory techniques and safety, precise measurement, data collection, data analysis, and graphing techniques are stressed. The course is problem-based with an emphasis on research and design.

## ENVIRONMENTAL SCIENCE - 1 UNIT (03003)

Ninth Grade
Prerequisite: NONE
This fundamental course is designed to continue the student investigations that began in grades K-8. The course focus is on scientific investigations of the local environment, the physical world, the living environment, resource conservation, human impact on the environment, and legal and civic responsibilities. Instruction will focus on student data collection and analysis through laboratory experience and field work.

## BIOLOGY - 1 UNIT (4310)

Tenth Grade
Prerequisite: Environmental Science
This course utilizes a systematic approach to the study of biology. It is designed to aid the student in the understanding of major life processes and the diversity of living things through a variety of activities and laboratory investigations.

## HONORS BIOLOGY - 1 UNIT (4310H)

Ninth Grade
Prerequisite: Algebra 1
Honors Biology is a rigorous laboratory-oriented course that is designed to give an overview of basic concepts, processes, and general principles of biology. It involves topics, such as cellular biology, genetics, taxonomy, comparative invertebrate and vertebrate anatomy, ecology, and botany. Historical information, contributions of scientists, career information, lab techniques and safety will be stressed throughout the course. Successful completion of the honors biology course will prepare any interested students to enter related fields of science, health, and medicine. Students must successfully complete 1 Honors PBA per semester

## EARTH SCIENCE - 1 UNIT (4210)

Eleventh Grade
Prerequisite: Algebra 1, Biology (4310)
This course is devoted to an investigation of the planet Earth - its features, its forces, its place in the solar system, and its place in the universe. Some of the major topics covered in the course include: the history of the earth; the geology and chemistry of the crust; forces that change the Earth's surface; the Earth in space; weather; and oceanography.

## HONORS EARTH SCIENCE - 1 UNIT (4210H)

Tenth Grade
Prerequisite: Algebra I and H Biology
The Honors Earth Science student will accurately apply appropriate Earth Science concepts, methods, principles, laws, theories, and environmental concerns to the four branches of Earth Science: geology, oceanography, meteorology, and astronomy. Using both independent and cooperative instructional methods, students will be involved in hands-on activities. Student involvement will foster an understanding of the interrelationships of Earth science and technology, and their application in a multicultural environment. Students must successfully complete 1 Honors PBA per semester

## BIOLOGY II - ECOLOGY - 1 UNIT (4340)

Eleventh - Twelfth Grades
Prerequisites: Biology (4310)
Biology II - Ecology is will allow the student to explore the local environment as well as current environment issues. Students will collect and interpret real world data through laboratory and field activities. Topics will include a general exploration of the ecology of marine, wetland and terrestrial environments and the Chesapeake Bay. The impact of Global Warming, populations and environmental laws will also be explored.

Biology II - Advanced Survey of Biology Topics in Biotechnology Foundations - 1 UNIT (4320H)
Tenth - Twelfth Grades; I. C. Norcom High School ONLY: AC-13 course
Prerequisite: Overall GPA of 2.0, successful completion of Algebra I, successful completion of Chemistry
This is a skills course with a primary focus on various techniques used in the field of biotechnology. Student activities range from bio-processing and genetic engineering to medicine, biomechanical systems, and the environment. Students gain insight and understanding about biotechnology career fields.

## BIOLOGY II - ANATOMY AND PHYSIOLOGY - 1 UNIT (03053H)

Eleventh - Twelfth Grades
Prerequisite: Biology Honors (4310H)
Anatomy and Physiology is an Honors course that will enable students to develop an understanding of the relationships between the structures and functions of the human body. Students will also learn the mechanisms for maintaining homeostasis within the human body; body functions in the healthy and diseased states; blood
typing; muscle action; nerve functioning; and bioethics. Laboratories will provide experiences in the physical laboratory and via zSpace virtual reality.

## EARTH SCIENCE II - OCEANOGRAPHY - 1 UNIT (4250)

Eleventh-Twelfth Grades
Prerequisites: Earth Science (4210)
This science course provides an in-depth treatment of physical and biological concepts of oceanography. The student collects and interprets oceanographic data through laboratory, field, and research activities. Topics include historical, geological, chemical, and biological aspects of the oceans, their resources, and the future of Oceanography.

## Earth Science II: Advanced Survey of Earth Science Topics using Geospatial Technology - 1 UNIT (4220H)

Eleventh - Twelfth Grades; I. C. Norcom High School ONLY: AC-13 course
Prerequisite: Overall GPA of 2.0; successful completion of Honors Earth Science and one additional laboratory science.

The growing use of geospatial technologies has created new applications for historical and current data collection systems. Students will examine the development of geospatial technologies from remote sensing, to the data collection structure of the Global Positioning system (GPS), and the applications of Geographic Information System (GIS) modeling software. Students will analyze real-world problem-based scenarios to construct models for the effective public communication of data. This interdisciplinary course makes use of many academic interests that have decision-making applications in government, business, and research.

## CHEMISTRY - 1 UNIT (4410H)

## Eleventh - Twelfth Grades

Prerequisite: Algebra I, Geometry, Honors Earth Science (4120H), Honors Biology (4310H)
The Chemistry course is a first year course in chemistry. Enrollment is open to all students who are willing to meet the challenge of an academic course. The intent of the honors chemistry curriculum is to provide students the opportunity to become actively involved in the process of investigation, and to develop knowledge and appreciation of important chemical concepts. Emphasis is placed upon use of mathematical concepts and skills in problem solving, experimentation that develops laboratory skills and the ability to analyze and evaluate data, application of atomic and molecular theory to explain chemical bonding, molecular structure, and chemical reactions, and exploration of chemical principles in various environmental, technological, and occupational areas. Honors chemistry will be taught as a laboratory science that incorporates specific readings, writings and project assignments.

## PHYSICS - 1 UNIT (4510H)

Eleventh - Twelfth Grades
Prerequisites: Algebra I
Honors Physics is a college preparatory course that involves lecture, problem solving, demonstration of technology principles, and laboratory experimental projects. Teamwork in lab problem solving activities is stressed as a reflection of what is going on in the real world. The first semester of the course emphasizes topics in mechanics, and the second semester primarily emphasizes electricity and magnetism. Other topics include heat, sound, wave motion, and light.

## PRINCIPLES OF TECHNOLOGY I - 1 UNIT (9811)

Grades 10-12
Prerequisite: 2 Lab Sciences \& Algebra I
Students in this one-semester, single-period course apply physics and math principles through a unified systems approach for a broad knowledge base of the principles underlying modern technical systems. This course covers seven technical principles: force, work, rate, resistance, energy, power, and force transformers, emphasizing how
each principle plays a unifying role in the operation of mechanical, fluid, electrical, and thermal systems in hightech equipment.

PRINCIPLES OF TECHNOLOGY II - 1 UNIT (9812)
Grades 10-12
Prerequisite: Principles of Technology I
Students in this one-semester, single-period course build on the knowledge base developed in Principles of Technology I while applying math and physics principles of problem solving activities. They are provided a further understanding of the principles of mechanical, fluid, electrical, and thermal systems that demonstrate the basic principles of physics, dividing them into seven units: Momentum, Waves and Vibrations, Energy Converters, Transducers, Radiation, Light and Optical Systems, and Time Constants.*

* Students must complete two lab science courses prior to taking this sequence. Students who successfully complete both Principles of Technology I and Principles of Technology II may receive a Physics credit for Principles of Technology II. Principles of Technology I counts as an elective credit.


## ENGINEERING DESIGN - 1 UNIT (4436H)

Grades 9-12

This course in engineering and technology provides opportunities for students to acquire skills and knowledge necessary for technological literacy, entry-level careers, and lifelong learning. Students learn Virginia's 21 Workplace Readiness Skills within the content area. Students explore the engineering design process and use a graphic language for product design, technical illustration, assemble, patent and structural drawings. Students use a variety of technologies, including 3D printing, to solve design problems.

## ADVANCED PLACEMENT BIOLOGY - 2 UNITS (43709)

## Tenth - Twelfth Grades

Prerequisites: Algebra II, Biology, Earth Science

This course provides the student an opportunity to meet the objectives of a general biology course at the college level. The living organism is studied from the molecular and cellular point of view with emphasis upon the required laboratory experiences. The pace and depth of the course are intensive. Students are expected to take the Advanced Placement Exam.

## ADVANCED PLACEMENT CHEMISTRY - 2 UNITS (44709) <br> Eleventh - Twelfth Grades <br> Prerequisites: Algebra II, Chemistry (4410H)

This course provides the student an opportunity to meet the objectives of a general chemistry course at the college level. Topics and laboratory activities included in this course reflect structure and the states of matter, reactions, and description chemistry. The pace and depth of the course are intensive. Students are expected to take the Advanced Placement Exam.

## ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE - 2 UNITS (42709)

Tenth - Twelfth Grades
Prerequisites: Algebra I, Earth Science Honors (4210H), Biology Honors (4310H)

This course provides the student an opportunity to meet the objectives of a general Environmental Science course at the college level. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.. Students are expected to take the Advanced Placement Exam.

## SOCIAL STUDIES

Social Studies courses are designed to help students understand and appreciate our history, our system of government, our economic system, and cultural heritage. One unit of United States and Virginia History, one in United States and Virginia Government, and one in either World History I and Geography or World History II and Geography is required for graduation in a standard diploma program. One unit of United States and Virginia History, one in United States and Virginia Government, and two in World History I and Geography and World History II and Geography are required for graduation in an advanced studies program. World Cultures I and II fulfill graduation requirements at Manor High School. World Cultures is offered only at Manor High School as part of the International Studies Center of Excellence program.

## UNITED STATES HISTORY: 1865 TO THE PRESENT (2354)

Grade 7
Prerequisite: None
This course encompasses the development of American ideals, eras, and personalities from Reconstruction to the present. It is designed to present United States involvement in world affairs and its evolution as a world leader. Social, economic, and political events are discussed and compared to others of that time period, as well as the present. The use of writing and thinking skills, charts, graphs, cartoons and other data interpretation activities is emphasized. Specific themes include Reconstruction, Imperialism, Progressive Movement, World War I, the Great Depression, World War II, the Korean War, the Cold War, and the decades of the sixties through the present.

## CIVICS AND ECONOMICS (2357)

Grade 8
Prerequisite: None
Students will explore the role of a citizen in the American political and economic systems. Emphasis is placed on the rights, duties, and responsibilities of American citizenship. Students will focus on the U. S. and Virginia Constitutions and the structure and functions of government institutions at all levels. This course also examines the basic principles, structure, and operation of the American economy. The American systems and institutions will be compared with systems and institutions of the global community.

## WORLD HISTORY AND GEOGRAPHY: TO 1500 A.D. - 1 UNIT (2215)

Grades 9-12
Prerequisite: None
Students explore the historical development of people, places, and patterns of life from ancient times. The contributions of varied civilizations in the areas of art, literature, science, government, and culture are studied. The geography of these regions, as well as the impact of geographical features are also studied.

## HONORS WORLD HISTORY AND GEOGRAPHY: TO 1500 A.D. - 1 UNIT (2215H)

Grades 9-12
Prerequisite: None
Students explore the historical development of people, places and patterns of life from ancient times to 1500 . The contributions of varied civilizations in the areas of art, literature, science, government, and culture are studied. The geography of these regions, as well as the impact of geographical features are also studied. Additional emphasis is given to research, writing, analysis, and critical thinking skills.

## WORLD HISTORY AND GEOGRAPHY: 1500 A.D. TO THE PRESENT - 1 UNIT (2216)

Grades 9-12
Prerequisite: World History and Geography to 1500 A.D.
This course expands the students' thinking and understanding of history from the middle ages to the present. Geographical influences on regions and history continue to be explored, with increasing attention to the
development of political boundaries, scientific revolutions, and changing economic, social, and political conditions. Contemporary issues are also studied.

## HONORS WORLD HISTORY AND GEOGRAPHY: 1500 A.D. TO THE PRESENT - 1 UNIT (2216H)

Grades 9-12
Prerequisite: World History and Geography to 1500 A.D.
This course expands the students' thinking and understanding of history from the 1500 s to the present. Geographical influences on regions and history continue to be explored, with increasing attention to the development of political boundaries, scientific revolutions, and changing economic, social, and political conditions. Contemporary issues are also studied. Additional emphasis is given to research, writing, analysis, and critical thinking skills.

## VIRGINIA AND UNITED STATES HISTORY - 1 UNIT (2360)

Grade 11
Prerequisite: World History and Geography to 1500 A.D. or World History and Geography 1500 A.D. to the Present, World Cultures I or II (Manor High School)

This course covers the historical development of American ideas and institutions from the age of exploration to the present. While focusing on political and economic history, the standards provide students with a basic knowledge of American culture through a chronological survey of major issues, movements, people, and events in United States and Virginia history. This course is required of all students for graduation.

## HONORS VIRGINIA AND UNITED STATES HISTORY - 1 UNIT (2360H)

Grade 11
Prerequisite: World History and Geography to 1500 A.D. or World History and Geography 1500 A.D. to the Present, World Cultures I or II (Manor High School)

The course covers the historical development of American ideas and institutions from the age of exploration to the present. This course is designed to help students to acquire a knowledge of the nation's past, to enable them to think and write critically, and to analyze both primary and secondary sources. The program is intended to challenge those students to work independently to enrich their understanding of their role as citizens in their community and nation, and to appreciate the cultural diversity of its people.

## ADVANCED PLACEMENT UNITED STATES HISTORY - 2 UNITS (23199)

Grade 11
Prerequisite: World History and Geography to 1500 A.D. or World History and Geography 1500 A.D. to the Present, World Cultures I or II (Manor High School)

This course covers this country's history from early explorers to the present. Upon successful completion of this course, and a satisfactory score on the AP exam, students may receive college-level credit. Emphasis is also placed on the economic growth of the country and its rise to world power.

## VIRGINIA AND UNITED STATES GOVERNMENT - 1 UNIT (2440)

## Grade 12

Prerequisites: World History and Geography to 1500 A.D. or World History and Geography 1500 A.D. to the Present, and United States and Virginia History, World Cultures I or II (Manor High School)

This course examines the basic structure of governments. The decision-making processes at the local, state, national and international levels are emphasized. Powers inherent to each branch of government are examined through the study of the Constitution of the United States and its Amendments, other historical documents, the State Constitution, and local governing bodies. Democratic values and citizen participation are stressed throughout the course. Student participation in the community should be encouraged. This course is required of all students for graduation.

## HONORS VIRGINIA AND UNITED STATES GOVERNMENT - 1 UNIT (2440H)

## Grade 12

Prerequisites: World History and Geography to 1500 A.D. or World History and Geography 1500 A.D. to the Present, and United States and Virginia History, World Cultures I or II (at Manor High School)

This course will take a comprehensive look at current economic, political, and social systems of the world. The U.S. Federal system of government will be explored with a focus on the separation of powers, functions of the three branches of government, and the impact of interest groups and political parties on the governmental process. The structure of state and local government will be examined in terms of the Virginia Constitution and the Portsmouth City Charter. The use of current events and primary sources will facilitate the students' ability to make decisions on political, economic, and social issues. Community services, volunteerism, and civic responsibility will be emphasized throughout the curriculum. The requirements of this course demand the successful completion of the course objectives as well as the specified honors components.

## HONORS GLOBAL AFFAIRS - 1 UNIT (2810)

Grades 11-12
Prerequisite: Be enrolled in the International Studies Center for Excellence or approved course waiver (for Manor students).

The focus of this course is on the interdependence of nations in the world today. Global developments are studied extensively on a regional and world basis followed by analysis of many critical topics including nuclear proliferation, human rights and terrorism. Substantial instruction is devoted to new patterns in world business and trade, including corporate enterprise and globalization. Attention is given to the rapid changes in technology and science affecting our world today.

## HONORS WORLD CULTURES I - 1 UNIT (2351H)

(Manor High School)
Grades 9-11
Prerequisite: Entry into or currently enrolled in the International Studies Center of Excellence or approved course waiver.

Students explore the historical development of people, places, and patterns of life from ancient times until 1500 A.D. (C.E.) in terms of the impact on Western Civilization. Emphasis is on the culture, economic, political and geographical development of the Western Hemisphere. Geography is incorporated as a means to better understand its impact on historical development. A focus is given to how the interdependent relationship of nations first developed. Research, writing, analysis, and critical thinking skills are stressed in the course. Outside reading will be required for successful completion of the course.

## HONORS WORLD CULTURES II - 1 UNIT (2375H)

(Manor High School)
Grades 9-10
Prerequisite: Entry into or currently enrolled in the International Studies Center of Excellence or approved course waiver

World Cultures II is the primary social studies course for the second year International Studies Center of Excellence student. Emphasis is on the cultural, economic, political, and geographical development of the Eastern Hemisphere and the Middle East. There is a continued focus on the evolution of the interdependent relationship of nations due to both geographical and societal changes. Essay writing (AP writing format) and technology skills are emphasized at this level of the program. Critical thinking and problem solving activities along with class participation are essential components of the course.

## AFRICAN AMERICAN HISTORY - 1 UNIT (2371)

Grades 11-12
Prerequisite: None

This course is a study of the African American's involvement in this country's history. A variety of materials, and media resources is used to study varying opinions and accounts of historical events, problems, achievements, and contributions in the arts, humanities, sciences, and government.

## SOCIOLOGY - 1 UNIT (2500)

Grades 11-12
Prerequisite: None
Sociology is about people - how they act, interact and react with others. This course is designed to help students better understand their place in the groups to which they belong and the function, influence and interaction of groups that form institutions, neighborhoods and societies. Sociology I investigates human society, social relations, organization and change. Emphasis is placed on the study of such issues as delinquency, poverty and changing family patterns. Students use surveys, case studies, experiments and interviews.

## VISUAL ARTS

Elementary students receive weekly visual arts instruction to advance critical thinking skills, exercise fine motor skills and to encourage personal expression. The middle school visual art curriculum provides students with a cultural and historical context for investigating the visual language. Sketchbooks are a place where students exercise creative thinking and planning solutions to artistic projects. Students are exposed to a variety of media and processes that include traditional media such as drawing, painting and sculpture as well as technology. Originality, craftsmanship, and ethical practices are stressed. The high school visual art curriculum centers on the continued development of artistic skills, aesthetic awareness, and historical and cultural knowledge. Individual creative expression is encouraged and students hone skills through planning and ideation in sketchbooks and technical skill building exercises. Contextual studies at each level provide opportunities to attain visual literacy, enabling students to apply criteria for making visual judgments and developing a personal aesthetic. A cumulative portfolio of art from each course demonstrates the students' individual growth and reflects a broad range of media, styles, and processes. Originality, craftsmanship, and ethical practices are stressed.

## EXPLORATORY ART (91057-9 Weeks)

Grade 7: Elective Wheel
Prerequisite: None

Exploratory Art in 7th Grade focuses on visual literacy. Students will study artists and their works, and experiment with various kinds of techniques and studio practice. The elements and principles of design are explored to connect students with the core vocabulary of visual language. The emphasis on visual literacy continues through sketchbook assignments, hands-on studio projects, and classroom critiques. Students gain skill and confidence in their personal expressions through various media. Originality and craftsmanship are emphasized in these exploratory art activities.

## MIDDLE SCHOOL ART (91158)

Grades 7-8
Prerequisite None


#### Abstract

Middle School Art builds on Exploratory Art, by continuing to investigate visual literacy throughout the semester. Students will study artists and their works, and experiment with various kinds of techniques and studio practice. The elements and principles of design are studied to connect students with the core vocabulary of visual language. The emphasis on visual literacy continues through sketchbook assignments, hands-on studio projects, and classroom critiques. Students gain skill and confidence in their personal expressions through various media and develop their personal aesthetic. While learning to communicate with the elements and principles of design, students are encouraged to develop craftsmanship and originality. Cultural context, art history, and multidisciplinary connections are emphasized in thematic art instruction that encourages artistic choice.


## ART I - 1 UNIT (9120)

Grades 8-12
Prerequisite: None
Building on the core curriculum of Middle School Art, Art I is a credit bearing entry-level elective course in visual arts that is a prerequisite for all subsequent art courses. Art I instruction concentrates on the elements and principles of design and the exploration of multiple materials and processes. Students develop a working art vocabulary, participate in critiques, maintain a sketchbook as a personal resource in creative problem solving. The emphasis on visual literacy continues throughout Art I with art historical research, ideation, creative problem solving, personalized studio projects and classroom critiques. Students gain skill and confidence in their artistic expressions through various media and develop a portfolio that illustrates artistic growth. While learning to communicate through the elements and principles of design, students are encouraged to develop craftsmanship and originality. Cultural context, art history, and multidisciplinary connections are emphasized in thematic art instruction that encourages artistic choice.

## ART II - 1 UNIT (9130)

Grades 9-12
Prerequisite: Art I
Art II is a visual arts course that encourages students to create art with personal meaning and technical skill. Visual literacy and communication are emphasized as students focus on research, ideation, creative problem solving, personalized studio projects and classroom critiques. Visual art techniques for drawing, painting, printmaking, ceramics and sculpture are used to communicate important ideas. Studio activities focus on individual creative problem solving and portfolio development. Students expand their ability to communicate personal artistic themes, with craftsmanship and originality. Cultural context, art history, and multidisciplinary connections are emphasized in thematic art instruction that encourages artistic choice.

## ART III - 1 UNIT (9140)

Prerequisite: Art II
Art III offers students an opportunity to select media for concentrated study, and is a continuation of the personal thematic explorations in Art II. Work will indicate a growing understanding of the elements and principles. Students develop their portfolios by working through a series of technical, and conceptual artistic challenges motivated by individual interests. Independent research serves to support their area of concentration and foster a broader knowledge of art history and contemporary art practice. Each student participates in peer critiques and maintains a sketchbook throughout their independent study. Visual art techniques for drawing, painting, printmaking, ceramics and sculpture are used to communicate important ideas. Emphasis is placed on individual creative problem solving and portfolio development. Students expand their ability to communicate personal artistic themes, with craftsmanship and originality. Cultural context, art history, and multidisciplinary connections are emphasized in thematic art instruction that encourages artistic choice.

## ART IV - 1 UNIT (9145)

Prerequisite: Art III
Art IV is an advanced course designed to provide an opportunity for independent study. Art IV coursework encourages continued in depth visual art media exploration and development of personal themes in an evolving body of work, building on the Art III curriculum. Students will complete works for public art exhibition, participate in peer critiques, and maintain a working sketchbook. In depth studio art investigation and experimentation is continued to develop personal themes, and style. Visual art techniques for drawing, painting, printmaking, ceramics and sculpture are used to communicate important ideas. Students expand their portfolios and hone craftsmanship and technical skills, while advancing knowledge of art history, contemporary art practices and aesthetic judgment. The culminating portfolio of highly developed artworks is in preparation for college applications and career opportunities.

## ANIMATION - 1 UNIT (05177)

Prerequisite: Art I
Animation is a visual arts course that focuses on time based visual media, and the historical and cultural importance of animated moving pictures. The technical skills and creative processes involved when creating an animation is the focus of the course. Students will explore the evolution of the animation processes beginning with hand-drawn animation and concluding with contemporary digital computer designed animations. Sketchbooks will be used for vocabulary, research notes, ideation, and planning stages of the animation process. Storyboard creation, developing original characters, creating sets, and generating sound effects are all elements that students will explore, as they work individually and in groups to create finished animations.

## CERAMICS \& SCULPTURE I - 1 UNIT (9175)

Prerequisite: Art I
This course places emphasis on the elements and principles of design as they relate to three-dimensional artistic construction in various media. Students will explore historical and cultural references and become familiar with materials, tools, and equipment that are process specific. Sketchbooks are an important tool for ideation, and research about 3D design concepts. Instruction focuses on the use of clay in hand building and wheel throwing techniques, as well as non-ceramic sculptural exploration. Originality and craftsmanship are stressed throughout the course as students work through conceptual and technical artistic challenges.

## CERAMICS \& SCULPTURE II - 1 UNIT (9176)

Prerequisite: Ceramics \& Sculpture I
The sculptural and ceramic processes learned in the introductory level are explored further in this course. Independent research involving traditional and contemporary 3D materials and processes will inform the student's decisions about conceptual and technical artistic challenges. Sketchbooks serve as a repository of ideas and illustrate the student's creative processes as the work evolves. Originality and craftsmanship are stressed, as well as the exploration of personal themes in the development of three-dimensional portfolios.

## GRAPHIC DESIGN- I UNIT (9153)

Prerequisite: Art I
This course addresses the fundamentals of design involving text and imagery to convey an idea. The students will work with the technology currently used in the advertising industry such as Photoshop. Students will produce the components of a corporate brand identity that includes a logo, a letterhead, and a business card. Other key projects will include magazine advertisements, a brochure, and a package design. Students will work as independent designers and design teams to simulate the commercial environment. At the conclusion of the course, students will have developed a professional interactive portfolio for college or career opportunities.

## PHOTOGRAPHY I - 1 UNIT (9193)

Prerequisite: Art I
Photography explores the historical context of photography, the mechanics of developing and printing black and white film, and the digital and graphic design aspects of photography. Students will experience traditional darkroom processes such as pinhole photography as well as alternative printing techniques, such as photogram, hand-tinting, solarization, and toning. Sketchbooks will be used to plan photo projects and will include data on their assignments such as location, date, time of day, and settings, as well as compositional and thematic planning. The student must have access to a digital camera. Connections between contemporary digital photography and traditional techniques will be explored.

## PHOTOGRAPHY II - 1 UNIT (05167)

Prerequisite: Photo I
Photography II continues to explore the historical context of photography, the mechanics of developing and printing black and white film, and the digital and graphic design aspects of photography. Students will develop a portfolio of thematic works based on personal exploration and experimentation around concepts of interest. Sketchbooks will be used to plan photo projects and will include data on their assignments such as location, date, time of day, and settings, as well as compositional and thematic planning. The student must have access to a digital camera. Connections between contemporary digital photography and traditional techniques will be explored.

# THE FINE AND PERFORMING ARTS ACADEMY AT CHURCHLAND HIGH SCHOOL 

The Fine Arts Academy at Churchland HS provides honors level courses designed to prepare motivated students from any Portsmouth High School for further study in the visual arts. Students may apply to enter the academy in grades 8-11. The application process begins in early spring. Fine Arts Academy applications can be requested from the school counseling department of any PPS Middle or High School, and includes a portfolio review process. Students interested in Performing Arts will complete an application specific to that discipline, which is described in the Performing Arts section of the PPS Course Description, and will require an audition. These Fine and Performing Arts classes are open to any PPS High School student, with a completed application, portfolio or audition review and acceptance. In addition to the application process, Fine Arts Academy students must maintain good academic standing and maintain regular school attendance. Bus transportation is provided for Norcom HS and Manor HS students who are accepted.

The Fine Arts Academy program offers an honors level curriculum in visual art, and prepares students to take AP Drawing, AP 2D Design, or AP 3D Design in their senior year. The art studio based curriculum explores various art processes, art history, and contemporary studio practice, while students develop a personal portfolio of artworks. This coursework will prepare students for college, scholarship applications and art careers. Portfolio development will include participation in multidisciplinary studio practice, maintaining a sketchbook, as well as participating in class discussions, peer critiques, and student exhibitions.

## FINE ARTS ACADEMY COURSES IN VISUAL ARTS

## HONORS STUDIO ART I - 2 UNITS ( 9170 H )

Grades: 9 \& 10 (11-12 optional )
Prerequisite: Fine Arts Academy at CHS Acceptance
Honors Studio Art I is designed for students who are on track to complete AP Studio Art in their senior year, and who are enrolled in the Fine Arts Academy. Students will explore periods in art history, art processes, and contemporary art practices. Studio processes and techniques for drawing, painting, printmaking, design, ceramics and sculpture are explored. Emphasis is placed on individual creative problem solving and portfolio development. Each student participates in peer critiques and maintains a sketchbook as part of their research and reflective practice. Cultural context, art history, and multidisciplinary connections are studied as it relates to individual creative concerns. Meaningful concepts are emphasized throughout students' portfolio development.

## HONORS STUDIO ART II - 2 UNITS (9197H)

Grades 11-12
Prerequisite: Honors Studio Art I
Fine Arts Academy at CHS Acceptance
Honors Studio Art II is a continuation of Honors Studio Art I, for students who are enrolled in the Fine Arts Academy. Students continue to explore periods in art history, art processes, and contemporary art practices. Studio processes and techniques for drawing, painting, printmaking, design, ceramics and sculpture are developed further. Emphasis is placed on individual creative problem solving and portfolio development throughout the coursework. Each student participates in peer critiques and maintains a sketchbook as part of their research and reflective practice. Cultural context, art history, and multidisciplinary connections are studied as it relates to individual creative concerns. Meaningful concepts are emphasized throughout students' portfolio development.

## ADVANCED PLACEMENT COURSES IN STUDIO ARTS

The content of these courses focuses on portfolio development and is determined by the Advanced Placement Course Description. These AP Visual Art courses are intended for highly motivated students who have an interest in intensive artistic study, focused on studio practice. Participation in The Visual Art Academy at Churchland HS is encouraged, however not required. Students can enroll in AP Studio Art with AP art instructor portfolio review. Art students successfully completing AP Art Studio courses will participate in the College Board Portfolio Evaluation.

## ADVANCED PLACEMENT 2-D ART AND DESIGN - 2 UNITS (91489)

Grade 12
Prerequisite: Honors Studio Art I \& II or Portfolio Review
In AP 2-D Art and Design you'll develop skills using materials and processes such as graphic design, photography, collage, printmaking, fashion illustration, and others. As the course concludes you'll submit a portfolio that demonstrates your ability to practice, experiment, and revise your own work while communicating your ideas about art and design.

## ADVANCED PLACEMENT 3-D ART AND DESIGN - 2 UNITS (91499)

Grade 12
Prerequisite: Honors Studio Art I \& II or Portfolio Review
In AP 3-D Art and Design you'll learn how to create art in different disciplines such as sculpture, architectural rendering, metal work, ceramics, and others. At the end of the course you'll submit a portfolio that demonstrates your knowledge of art skills using three-dimensional materials.

## ADVANCED PLACEMENT DRAWING - 2 UNITS (91509)

Grade 12
Prerequisite: Honors Studio Art I \& II or Portfolio Review
In this course you'll experiment with a variety of materials and processes as you develop your drawing skills. At the end of the course you'll submit a portfolio that demonstrates the different drawing abilities taught in the course, which include mark-making, line, surface, space, light and shade, and composition.

## WORLD LANGUAGE

As the world continues to open its boundaries both academically and physically to its global neighbors, it becomes even more important for students to enrich their lives by learning at least one language in addition to their own. The knowledge acquired from a world language will reinforce and expand their learning in other subject areas, enable students to interact effectively with others and increase access to information across the world.

Five (5) years of French, Spanish, and Latin are offered in Portsmouth Public Schools. One or two years of second language study provides some benefits. With four years of language, students achieving a proficiency level would enable them to understand, speak, read authentic documents, and respond appropriately in a written and oral context. Through the study of a second language, a student also gains an understanding of the language and an appreciation for the culture of the targeted language. The world language program is continuous as each level allows student to build upon previous learning. All languages listed here are offered in the high schools. The middle schools provide access to Spanish for all students as exploratory or high school credit.

## EXPLORATORY CULTURES AND LANGUAGE (5700)

Exploratory Spanish Culture is a nine-week course designed for middle school students to explore the Spanish language and culture. Students are provided opportunities to communicate in Spanish with their peers and teacher. In addition, students develop a greater understanding of their own culture as they learn to appreciate different aspects of Spanish culture.

## ARABIC I-1 UNIT (5010)

The beginning level is designed for students with no prior knowledge of Arabic. The goal of Arabic 1 is to help students develop listening, speaking, reading, and writing skills and a basic understanding and assimilation of the Arab culture in general. In level I classes, students learn to communicate in real-life contexts about meaningful topics. To develop students' communicative competence, emphasis is placed on the use of the target language in the classroom as exclusively as possible and on the use of authentic materials to learn about the language and culture. Grammar is integrated into instruction according to the vocabulary and structures needed in the various situations in which students are required to communicate. Students will be introduced to the Arabic Alphabet, Numerals, and usage of basic vocabulary, phrases, and sentences. Through the language learning process, students develop a greater understanding of the structure of their own language and the unique aspects of their own culture. An important component of learning a modern world language is using the language in the real world beyond the classroom setting.

## FRENCH 1 - 1 UNIT (5110)

Grades 9-12
Prerequisite: None
Students will learn to interact and survive linguistically in French in the classroom, primarily using memorized materials and functions that recur on a daily basis. They will develop listening, speaking, reading, and writing skills to react, in a limited way, in social situations.

## FRENCH 2 - 1 UNIT (5120)

Grades 9-12
Prerequisite: French I
With French II, students will continue to develop their communicative and cultural competence by interacting with others in this target language. Students will possess the listening, speaking, reading, and writing skills that are necessary to handle simple everyday survival tasks in the target culture.

## FRENCH 3 - 1 UNIT (5130)

Grades 9-12
Prerequisite: French 2
Students will carry out the functions of level two but will experience a higher degree of competency in the content area. Going beyond the linguistic focus of primarily personal welfare and survival skills of level two, students will begin to discuss other people, places, and external events. Students will begin to describe and narrate in past, present, and future time.

## FRENCH 4-1 UNIT (5140)

Grades 10-12
Prerequisite: French 3
At this level, students will have become active communicators. They will be able to express main ideas and details coherently orally and in writing. They will understand and interpret the meaning of main points, and most details, in familiar and unfamiliar oral or written communications such as: interviews, short lectures, news items, and radio and television reports. They will understand written texts such as: simple short stories, news items, biographical information, short social and business correspondence, and simple journal and magazine articles. Students will write narratives and descriptions in length on familiar topics. They will communicate primarily in the target language increasing oral proficiency.

## FRENCH 5-1 UNIT (5150)

Grades 11-12
Prerequisite: French 4
At this level, students will be able to deal with minor complications in realistic situations. They will narrate and describe with appropriate reference to general time frames (past, present, future), and participate actively in a wide variety of everyday conversations. Students will examine and analyze present and past contributions to society, through the arts and literature, and through other forms of communication. They will communicate primarily in the target language increasing oral proficiency.

## LATIN 1-1 UNIT (5310)

Grades 9-12
Prerequisite: None
This course emphasizes Latin grammar, but reading lessons are selected to promote the student's achievement of a better understanding of English words and of Roman life and mythology.

## LATIN 2-1 UNIT (5320)

Grades 9-12
Prerequisite: Latin 1
An emphasis is placed on the translation of stories about Roman life, mythology, and history. The study of grammar and derivatives of Latin words is continued.

## LATIN 3 - 1 UNIT (5330)

Grades 10-12
Prerequisite: Latin 2
Latin 3 emphasizes the translation of Caesar's Gallic Wars and the history of his time. Mythology is studied in its original form through the Metamorphoses of Ovid. Culture and advanced grammar are taught as an aid to translation.

## LATIN 4 - 1 UNIT (5340)

Grades 10-12
Prerequisite: Latin 3
This course emphasizes the translation of Virgil's Aeneid and the study of its purpose, its place in literature, its poetic beauty, and its verification. Review exercises in translating from English into Latin are provided.

## LATIN 5-1 UNIT (5350)

Grades 11-12
Prerequisite: Latin 4
Latin 5 emphasizes translation of the poetry of Catullus and Horace. Poems that deal with romance, humor, and philosophy are discussed in relation to modern morals and conventions.

## SPANISH 1 - 1 UNIT (5510)

Grades 8-12
Prerequisite: None
Students will learn to interact and survive linguistically in Spanish in the classroom, primarily using memorized materials and functions that recur on a daily basis. They will develop listening, speaking, reading, and writing skills to react as a novice language student, in social situations.

## SPANISH 2-1 UNIT (5520)

Grades 9-12
Prerequisite: Spanish 1
By the end of this level, students will possess the listening, speaking, reading, and writing skills that are necessary to handle simple everyday survival tasks in the target culture.

## SPANISH 3-1 UNIT (5530)

Grades 9-12
Prerequisite: Spanish 2
At this level students will carry out the functions of level 2 but will experience a higher degree of competency in the course. With an emphasis on oral communication that goes beyond the linguistic focus of primarily personal welfare and survival of level two, students will begin to discuss other people, places, and external events. Students will begin to narrate in past, present, and future time.

## SPANISH 4-1 UNIT (5540)

Grades 10-12
Prerequisite: Spanish 3
At this level, students will have become interesting communicators. They will be able to express main ideas and details coherently, both orally and in writing. They will understand and interpret the meaning of main points, and most details, in familiar and unfamiliar oral or written communications such as: interviews, short lectures, news items, and radio and television reports. They will understand written texts such as: simple short stories, news items, biographical information, short social and business correspondence, and simple journal and magazine articles. Students will write narratives and descriptions in length on familiar topics. They will communicate primarily in the target language increasing oral proficiency.

## SPANISH 5-1 UNIT (5550)

Grades 11-12
Prerequisite: Spanish 4
At this level students will be able to deal with minor complications in realistic situations. They will narrate and describe with appropriate reference to general time frames (past, present, future), and participate actively in a
wide variety of everyday conversations. Students will be able to draw upon their knowledge to examine and analyze present and past contributions to society, through the arts and literature, and through other forms of communication. Students will communicate primarily in the target language increasing oral proficiency.

## DUAL ENROLLMENT ACADEMIES

## Courses Offered in partnership with Tidewater Community College

## EARLY COLLEGE ACADEMY

The dual enrollment program at Tidewater Community College Portsmouth Campus provides pathways for high school students to concurrently complete a high school diploma and an associate degree from TCC.

- Associate of Science Degree in Social Sciences
- Associate of Science Degree in General Studies
- Associate of Science Degree in Science
- Career Studies Certificate in Maritime Welding

Recommended Coursework for Associate's Degree Completion:

| $\mathbf{7}^{\text {th }}$ Grade | $\mathbf{8}^{\text {th }}$ Grade | $\mathbf{9}^{\text {th }}$ Grade | $\mathbf{1 0}^{\text {th }}$ Grade |
| :--- | :--- | :--- | :--- |
| Algebra I | Honors Geometry | Honors Algebra II | Honors Trigonometry (Fall) <br> Honors Math Analysis (Spring) |
|  | World Language I | World Language II | World Language III |
|  |  | Honors Biology (Fall) <br> Honors Earth Science (Spring) | Honors Physics OR Chemistry |
|  |  | Honors 9 English | Honors 10 English |
|  |  | Honors World History I | Honors World History II |
|  |  | Health/PE 9 | Health/PE 10 |
|  |  | Fine Arts Elective | Elective |

## FIRST COLLEGE SCHOLARS GRADUATE ACADEMY

The dual enrollment program at Tidewater Community College Portsmouth Campus provides pathways for high school students to concurrently complete a high school diploma and general education certificate from TCC.

- Certificate in General Education


## FIRST COLLEGE ACADEMY

Through an initiative made possible by the State Council of Higher Education (SCHEV), seniors can earn up to 20 semester hours of college credit. Courses offered in the Program are based on those identified by the State Council of Higher Education and are known as "Commonwealth College Course Collaborative (CCCC)." "Public colleges and universities in Virginia have agreed to accept CCCC course credits as meeting part of the college's general education requirements on a credit for credit basis. Courses identified as first College Courses are noted under the First College Course offerings.

## WHO IS ELIGIBLE

High school seniors who plan to attend a college or university after graduation are eligible to participate in First College. Interested students must have a 3.0 GPA or pass the Virginia Placement Test (VPT) by the spring of their junior year, successfully pass English 111-112 with a grade of "C" or better, and should have completed all courses required for graduation by the end of the first semester of their senior year.

## WHAT ARE THE ADVANTAGES

- Earn transferable college credits while still in high school
- Full time college students at TCC
- Reduce number of credits needed for graduation from a four-year institution
- Smaller classes with greater interaction with faculty
- Cost
- Shorter school week


## TUITION AND TEXTBOOKS

In partnership with the Beasley Foundation students that are accepted into the program, may be eligible for free or half tuition. Portsmouth Public Schools (PPS), in accordance with the TCC/First College Agreement, will pay the remaining balance. Portsmouth Public Schools will purchase textbooks for the First College courses and loan them to students. Textbooks will be issued from the students high schools and collected at the end of the semester. Students who fail to return books will be required to pay the full purchase price before graduating. Parents and students who are interested in buying any of the course textbooks will have the option of purchasing them.

## GRADING

All First College dual enrollment courses will be weighted in accordance with PPS grading guidelines. Grades will be factored into the overall high-school grade point average (GPA) and calculated accordingly. The TCC midsemester status report will be provided to PPS in March and then used to determine class rankings.

## TRANSPORTATION

Portsmouth Public Schools will provide free transportation to and from the TCC Portsmouth Campus, Monday through Friday. Students requiring transportation are expected to arrive at their zone high schools each morning. Students will be transported to TCC each morning and will be returned prior to the end of the school day. In the event of inclement weather, students will follow TCC's schedule. If Portsmouth Public Schools are closed due to weather and TCC has classes, students must provide own transportation.

# DUAL ENROLLMENT COURSES 

**These courses are subject to change**

## ART 100 - DE ART APPRECIATION

Introduces art from prehistoric times to the present day. Describes architectural styles, sculpture, photography, printmaking, and painting techniques. Highlights major artists and key contributions from global and Western culture. Covers content chronologically and/or thematically. This is a Passport and UCGS Transfer course.

## ART 101 - DE ART HISTORY

Surveys the history and interpretation of architecture, painting and sculpture from the prehistoric era through the Gothic.

## ART 102 - DE ART HISTORY II

Surveys the history and interpretation of architecture, painting and sculpture from the Renaissance through the modern era.

## BIO 101 - DE ADVANCED SURVEY OF BIOLOGY TOPICS

Focuses on biological processes with a chemical foundation, including macromolecules, cellular structure, metabolism, and genetics in an evolutionary context. Explores the core concepts of evolution; structure and function; information flow, storage and exchange; pathways and transformations of energy and matter; and systems biology. Emphasizes the process of science, interdisciplinary approach, and relevance of biology to society. Part I of a two-course sequence. Assignments require college-level reading fluency, coherent written communication, and basic mathematical skills.

## BIO 102 - DE ADVANCED SURVEY OF BIOLOGY TOPICS II

Focuses on biological processes with a chemical foundation, including macromolecules, cellular structure, metabolism, and genetics in an evolutionary context. Explores the core concepts of evolution; structure and function; information flow, storage and exchange; pathways and transformations of energy and matter; and systems biology. Emphasizes the process of science, interdisciplinary approach, and relevance of biology to society.

## BIO 106 - DE ADVANCED SURVEY OF BIOLOGY TOPICS - LIFE SCIENCES

Surveys the basic concepts of life science. Engages in the scientific process by developing hypotheses, gathering data, and analyzing results. Explores topics within the context of the societal implications of science. Intended for students not majoring in science. Assignments require college-level reading fluency, coherent written communication, and basic mathematical skills.

## BIO 141 - DE ANATOMY AND PHYSIOLOGY

Presents the study of anatomy \& physiology including anatomical terminology, homeostasis, histology, integumentary system, skeletal system, muscular system, and nervous system. Part I of II. Assignments require college-level reading fluency, coherent written communication, and basic mathematical skills.

## BIO 142 - DE ANATOMY AND PHYSIOLOGY II

Continues study of anatomy and physiology including endocrine system, blood and cardiovascular system, lymphatic system and immunity, respiratory system, urinary system, fluid, electrolyte, and acid-base balance, digestive system and nutrient metabolism, reproductive system, and prenatal development. Part II of II.

## CHM 101 - DE INTRODUCTORY CHEMISTRY

Explores the experimental and theoretical concepts of general chemistry while emphasizing scientific reasoning, critical and analytical thinking. Designed for the non-science major. This is a Passport Transfer course.

## CHM 111 - DE GENERAL CHEMISTRY

Explores the fundamental laws, theories, and mathematical concepts of chemistry. Designed primarily for science and engineering majors. Requires a strong background in mathematics. Students must earn a grade of C or higher in the lecture portion of the course to earn an overall grade of C or higher. Part I of II.

## CHM 112 - DE GENERAL CHEMISTRY II

Explores the fundamental laws, theories, and mathematical concepts of chemistry. Designed primarily for science and engineering majors. Requires a strong background in mathematics. Students must earn a grade of C or higher in the lecture portion of the course to earn an overall grade of C or higher.

## CST 100 - DE PUBLIC SPEAKING

Principles of Public Speaking Applies theory and principles of public address with emphasis on preparation and delivery.

## CST 130 - DE INTRO TO THEATER

Surveys the principles of drama, the development of theatre production, and selected plays to acquaint the student with various types of theatrical presentations.

## ECO 150 - DE ECONOMIC ESSENTIALS

Presents a broad overview of microeconomic and macroeconomic theory with application to current economic situations. Introduces concepts, policies, and theories in addition to models of domestic and global economies.

## ECO 201 - DE MACROECONOMICS

Presents the fundamental macroeconomic concepts, theories, and issues including the study of scarcity and opportunity cost, supply and demand, national economic growth, inflation, recession, unemployment, fiscal and monetary policies, and international trade. Develops an appreciation of how these economic concepts apply to consumer, business, and government decisions, and their effect on the overall economy. This is a Passport and UCGS Transfer course.

## ENG 111 - DE 12 ENGLISH (MUST COMPLETE 111 \& 112 FOR 12 ENGLISH COMPLETION)

Introduces and prepares students to the critical processes and fundamentals of writing in academic and professional contexts. Teaches the use of print and digital technologies to promote inquiry. Requires the production of a variety of academic texts, totaling at least 4500 words ( 15 pages typed) of polished writing. This course requires proficiency in using word processing and learning management software.

## ENG 112 - DE 12 ENGLISH MUST COMPLETE 111 \& 112 FOR 12 ENGLISH COMPLETION)

Further develops students' ability to write for academic and professional contexts with increased emphasis on argumentation and research. Requires students to evaluate, integrate, and document print and digital sources to produce a range of academic and multimodal texts, culminating in a fully documented research paper. This course requires proficiency in using word processing and learning management software.

## ENG 258 - DE AFRICAN AMERICAN LITERATURE

Explores the stories African American authors tell about themselves, their communities, and the world. Examines common and diverging themes within African American literary traditions through the study of diverse authors, genres, and literary movements from a variety of time periods. Emphasizes interpretive and critical analysis skills developed through close reading and consideration of historical and cultural contexts. This is a UCGS Transfer course.

## ENV 121 - DE ENVIRONMENTAL SCIENCE

Explores fundamental components and interactions that make up the natural systems of the earth. Introduces the basic science concepts in the discipline of biological, chemical, and earth sciences that are necessary to understand and address environmental issues.

## FRE 203 - DE FRENCH III

Continues to develop understanding, speaking, reading, and writing skills.

## FRE 204 - DE FRENCH IV

Continues to develop understanding, speaking, reading, and writing skills.

## GOL 105 - DE PHYSICAL GEOLOGY

Introduces the science of physical geology through a comprehensive systems-based examination of Earth's structure, composition, rocks and minerals, landforms, geomorphology, and agents responsible for shaping and modifying its environments. Explores the origin and evolution of Earth's topographic and bathymetric features, geologic phenomena, and geologic hazards, resulting from plate tectonics.

## GOL 106 - DE HISTORICAL GEOLOGY

Traces the evolution of the earth and life through time. Presents scientific theories of the origin of the earth and life and interprets rock and fossil record.

## GOL 111 - DE OCEANOGRAPHY

Examines the dynamics of the oceans and ocean basins. Applies the principles of physical, chemical, biological, and geological oceanography.

## GOL 112 - DE OCEANOGRAPHY II

Examines the dynamics of the oceans and ocean basins. Applies the principles of physical, chemical, biological, and geological oceanography.

## HIS 121 - DE US HISTORY (MUST COMPLETE 121 \& 122 FOR US HISTORY COMPLETION)

Introduces the history of the United States from its origins to 1877. Includes the European exploration, development of the American colonies and their institutions, the Revolution, major political, social and economic developments, geographical expansion, the Civil War, and Reconstruction.

## HIS 122 - DE US HISTORY II (MUST COMPLETE 121 \& 122 FOR US HISTORY COMPLETION)

 Introduces the history of the United States from 1865 to present. Includes major political, social and economic developments since 1865 , overseas expansion, the two world wars, the Cold War and the post-Cold War era.
## HLT 110 - DE PERSONAL AND COMMUNITY HEALTH

Introduces students to the basic concepts of health and dimensions of wellness through exploration of a variety of personal health topics. Identifies factors that affect the health status of individuals in addition to health promotion and disease prevention at the personal and community level.

## HUM 201 - DE EARLY HUMANITIES

Examines the values and expression of ideas of selected western and non-western cultures from prehistory up to the 1300 s, integrating the arts, literature, religion, and philosophy within the context of history. The assignments in this course require college-level reading, analysis of scholarly studies, and coherent communication through properly cited and formatted written reports

## HUM 202 - DE MODERN HUMANITIES

Examines the values and expression of ideas of selected western and non-western cultures from the 1300s until 1900 s, integrating the visual arts, literature, religion, music and philosophy within the context of history. The assignments in this course require college-level reading, analysis of scholarly studies, and coherent communication through properly cited and formatted written reports.

## HUM 256 - DE MYTHOLOGY

Studies the cultural expressions of mythology. Considers selected mythologies representing diverse global culture, with emphasis on parallels and divergences in structure, purpose, and representation in literature and the arts. The assignments in this course require college-level reading, analysis of scholarly studies, and coherent communication through properly cited and formatted written reports.

## HUM 260 - DE CONTEMPORARY HUMANITIES

Examines selected values and expressions of ideas of western and non-western cultures throughout the twentieth century and beyond, integrating the visual arts, literature, performing arts, religion, and philosophy
within the context of history. The assignments in this course require college-level reading, analysis of scholarly studies, and coherent communication through properly cited and formatted written reports

## MTH 154 - DE QUANTITATIVE REASONING

Quantitative Reasoning presents topics in proportional reasoning, modeling, financial literacy and validity studies (logic and set theory). Focuses on the process of taking a real0world situation, identifying the mathematical foundation needed to address the problem, solving the problem and applying what is learned to the original situation.

## MTH 155 - DE PROBABILITY AND STATISTICS

Statistical Reasoning presents elementary statistical methods and concepts including visual data presentation, descriptive statistics, probability, estimation, hypothesis testing, correlation, and linear regression. Emphasis is placed on the development of statistical thinking, simulation, and the use of statistical software.

## MTH 161 - DE PRECALCULUS

Pre-calculus I presents topics in power, polynomial, rational, exponential, and logarithmic function, and systems of equations and inequalities.

## MTH 162 - DE PRECALCULUS II

Pre-calculus II presents trigonometry, trigonometric applications including Law of Sines and Cosines and an introduction to conics.

## MTH 263 - DE CALCULUS

Calculus I presents concepts of limits, derivatives, differentiation of various types of functions and use of differentiation rules, application of differentiation, and anti-derivatives, integrals and applications of integration.

## MTH 264 - DE CALCULUS II

Calculus II continues the study of calculus of algebraic and transcendental functions including rectangular, polar, and parametric graphing, indefinite and definite integrals, methods of integration, and power series along with applications. Features instruction for mathematical, physical, and engineering science programs.

## MUS 121 - DE MUSIC IN SOCIETY

Explores the language of music through an introduction to basic elements, forms and styles across time. Acquaints students with composers' lives and influential creative individualities, discovering representative works and milestones in western society. Develops techniques for listening analytically and critically. Reviews historical development and significance of art music within the context of evolving societal structures.

## PHI 111 - DE LOGIC

Introduces inductive and deductive reasoning, with an emphasis on common errors and fallacies.

## PHI 220 - DE ETHICS

Provides a systematic study of representative ethical systems.

## PHY 100 - DE ELEMENTS OF PHYSICS

Covers basic concepts of physics, including Newtonian mechanics, properties of matter, heat and sound, fundamental behavior of gases, ionizing radiation, and fundamentals of electricity.

## PHY 201 - DE PHYSICS I

Teaches fundamental principles of physics. Covers mechanics, thermodynamics, wave phenomena, electricity and magnetism, and selected topics in modern physics. Part I of II.

## PHY 202 - DE PHYSICS II

Teaches fundamental principles of physics. Covers mechanics, thermodynamics, wave phenomena, electricity and magnetism, and selected topics in modern physics. Part II of II.

## PHY 241 - DE UNIVERSITY PHYSICS

Teaches principles of classical and modern physics. Includes mechanics, wave phenomena, heat, electricity, magnetism, relativity, and nuclear physics. Part I of II.

## PHY 242 - DE UNIVERSITY PHYSICS II

Teaches principles of classical and modern physics. Includes mechanics, wave phenomena, heat, electricity, magnetism, relativity, and nuclear physics. Part II of II.

PLS 135 - DE US GOVERNMENT (MUST TAKE 135 \& 136 FOR US GOVERNMENT COMPLETION) Teaches the political structure, processes, institutions, and policymaking of the US national government. Focuses on the three branches of government, their interrelationships, and how they shape policy. Addresses federalism; civil liberties and civil rights; political socialization and participation; public opinion, the media; interest groups; political parties; elections; and policymaking. The assignments in the course require collegelevel reading fluency and coherent communication through written reports.

## PLS 136 - DE US GOVERNMENT II (MUST TAKE 135 \& 136 FOR US GOVERNMENT COMPLETION)

Teaches structure, powers, and functions of state and local government in the United States as related to federalism; constitutionalism; elections; powers of legislative, executive, and judicial powers of state and local government; state-local-federal relations; fiscal matters; metropolitan issues; and policy issues, like health, education, criminal justice and welfare. The assignments in the course require college-level reading fluency and coherent communication through written reports.

## PSY 200 - DE PSYCHOLOGY

Principles of Psychology Surveys the basic concepts of psychology. Covers the scientific study of behavior and mental processes, research methods and measurement, theoretical perspectives, and application. Includes biological bases of behavior, learning, social interactions, memory, and personality; and other topics such as sensation, perception, consciousness, thinking, intelligence, language, motivation, emotion, health, development, psychological disorders, and therapy.

## PSY 230 -DE DEVELOPMENTAL PSYCHOLOGY

Studies the development of the individual from conception to death. Follows a life-span perspective on the development of the person's physical, cognitive, and psychosocial growth.

## SOC 200 - DE SOCIOLOGY

Principles of Sociology introduces fundamentals of social life. Presents significant research and theory in areas such as culture, social structure, socialization, deviance, social stratification, and social institutions.

## SOC 268 - DE SOCIAL PROBLEMS

Introduces the fundamental concepts underlying social problems construction with attention to how these problems are defined, understood and arbitrated. Examines a variety of topics such as researching social problems and policymaking.

## SPA 203 - DE SPANISH III

Continues to develop understanding, speaking, reading, and writing skills. Classes conducted in Spanish. May include oral drill and practice. Part I of II.

## SPA 204 - DE SPANISH IV

Continues to develop understanding, speaking, reading, and writing skills. Classes conducted in Spanish. May include oral drill and practice. Part II of II.

## CAREER AND TECHNICAL EDUCATION DUAL ENROLLMENT COURSES

AUT $101 \mid 3$ credits
Introduction to Automotive Systems Introduces fundamental systems of the automobile: the engine fuel, exhaust, electric, ignition, lubrication, cooling, transmission, steering, brake and suspension systems. Teaches
theory and function of each system. Demonstrates operation. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

## AUT 149|5 credits

Basic Automotive Electrical Diagnostics Introduces basic automotive electrical concepts, including theory and practical application. Provides instruction on using circuit wiring diagrams to accurately diagnose, troubleshoot, and repair simple electric circuits. Covers basic electrical principles, electrical terminology, and how to use electrical testing equipment. This course provides preparation for the Automotive Service Excellence (ASE) A6 Electrical/Electronic Systems ASE Certification examination. Lecture 2 hours. Laboratory 6 hours.

## AUT 155 | 5 credits

Basic Automotive Engine Performance Diagnostics Introduces basic engine performance concepts, including theory and practical application. Covers vehicle communications, scan-tool diagnostics, basic engine mechanical tests, and diagnosing and repairing vehicle drivability issues. Provides preparation for the Automotive Service Excellence (ASE) A8 Engine Performance ASE Certification examination. Prerequisite: AUT 149. Lecture 2 hours. Laboratory 6 hours. Total 8 hours per week. al 8 hours per week.

## DE HVAC I - (AIR 121) - 1 UNIT (8503)

Prerequisite: Placement Test; Principles of Technology (9811)
The course studies refrigeration theory, tools and equipment, soldering, brazing, refrigeration systems, system components, compressors, evaporators, metering devices. It provides laboratory application of refrigerators and freezers. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

## DE HVAC II - (AIR 122) - 1 UNIT (8504)

Prerequisite: AIR 121
The course presents operations of commercial refrigeration systems, ice machines, design, installation and service, air conditioning and heat pumps. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

## MARINE ELECTRICAL - 1 UNIT (8533)

Prerequisite: Placement Test
Students upon one semester will receive 6 TCC credits. Course develops skills in installation, operation, maintenance, and repair of industrial electrical systems. Also, covered are basic electrical circuits and theories of operation common to maritime vessel electrical systems. Fundamentals of AC power plants, electrical and lighting circuits, protective devices, and all other primary power circuits are developed.

## ENGINEERING DRAWING AND DESIGN - 1 UNIT (8493)

Grades 10-12
Prerequisite: Technical Drawing

This one-semester, single-period advanced drawing and design course enables students to use a graphic language for product design, technical illustration, assembly, patent, and aeronautical drawings. Students use computers, calculators, and descriptive geometry and adhere to established standards to solve design problems.

## MARINE WELDING - (WEL 117) - 1 UNIT (8672)

The course introduces history of oxyacetylene welding, principles of welding and cutting, nomenclature of the puddle, running flat beads, and butt-welding in different positions. It also, explains brazing, silver and soft soldering, heat-treating of small tools, and safety procedures in the use of tools and equipment. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

