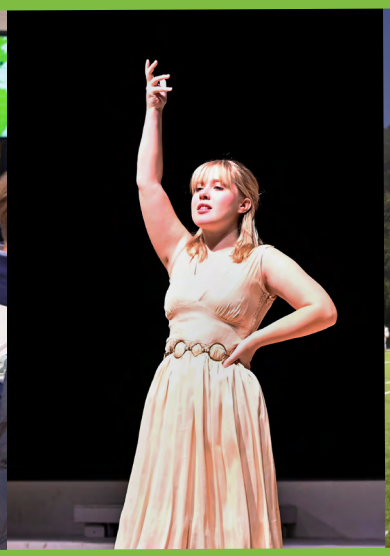
York County School Division



2026-27 PROGRAM OF STUDIES

Registration and Information Guide for Future Ready Graduates




Embrace • Engage • Empower

TABLE OF CONTENTS

INTRODUCTION

Purpose

The *2026-27 Secondary Program of Studies Registration and Information Guide* is designed to provide students and their parents with information that will assist them in course selection and with long-range academic and career planning. This guide includes information on graduation requirements, career planning, and instructional programs and courses offered in the middle and high schools of the York County School Division (YCSD). The information in this guide is accurate at the time of printing. However, the Program of Studies is updated as needed and may change. For the most current details about courses and programs, please speak with your school counselor.

It is important that students consider the course descriptions and prerequisites, keeping in mind their personal abilities and interests. Students should choose courses that contribute to the accomplishment of their educational, personal, and career goals.

Parents are asked to review the *Secondary Program of Studies Registration and Information Guide* with their student. The information provided should generate helpful discussions about course opportunities, diploma types, and educational plans. Please assist school personnel as they work to help your student realize that the educational choices made today greatly affect the opportunities available in the future. If you have suggestions or feedback on course offerings, please complete the Program of Studies Feedback form at https://forms.office.com/r/uw3c9xTuw9 .

Academic and Career Plan

A student's Academic and Career Plan (ACP) is developed to support the student's academic success and prepare the student with the knowledge and skills necessary for higher education, multiple career paths and active citizenship.

The components of the ACP include the student's course selections through high school graduation. Identification of a postsecondary career pathway based on the student's academic and career interests and goal-setting are also part of the plan.

All schools begin the development of an ACP for each seventh-grade student. A completed ACP will be in place by the spring of the student's eighth grade year. The process continues with the annual review of progress toward the student's established goals. Students, parents, school counselors, and teachers work collaboratively to make appropriate course choices. *See YCSD Policy IJD- College and Career Readiness.*

Using the Program of Studies

1) Familiarize yourself with graduation requirements and decide which diploma you will pursue.

- ☐ Advanced Studies
- ☐ Standard

2) Select a career cluster/path.

- ☐ Choose a career cluster/path that closely relates to your interests, skills, values and strengths.
- ☐ Explore occupations that relate to your skills.
- ☐ Learn what education, skills, and knowledge are required.

3) Identify courses that relate to your diploma choice and career path.

4) Meet with your school counselor to finalize your course selections.

For additional information contact the School Counseling Office at:

Grafton Middle School (GMS)
(757) 898-0560

Queens Lake Middle School (QLMS)
(757) 220-4070

Tabb Middle School (TMS)
(757) 898-0319

Yorktown Middle School (YMS)
(757) 898-0410

Bruton High School (BHS)
(757)220-4055

Grafton High School (GHS)
(757) 898-0550

Tabb High School (THS)
(757) 867-5399

York High School (YHS)
(757) 898-0424

York River Academy (YRA)
(757) 898-051

DIPLOMAS & GRADUATION REQUIREMENTS

The Commonwealth of Virginia's Board of Education establishes graduation requirements for all students enrolled in public schools. Additional requirements may be prescribed by the local school board.

Students may be awarded a diploma or a certificate upon graduation from a Virginia high school. The requirements for a student to earn a diploma from a Virginia high school are the requirements that are in effect when that student enters the ninth grade for the first time.

The York County School Division (YCSD) provides diploma options and certificates to meet the individual needs of students. School counseling services provide regular opportunities for students and parents/guardians to evaluate student progress toward diploma requirements and to make adjustments to the type of diploma selected when necessary. Specific requirements for the diplomas listed in this section can be found on the following pages. For more information, please speak with your school counselor to discuss which diploma best meets your post-high school goals.

NOTE: *Graduation and course requirements listed within this Program of Studies are subject to change due to possible modifications in state requirements.*

Advanced Studies Diploma: This diploma signifies that the student has met standards established by the Virginia Board of Education by earning at least 26 standard credits and 5 verified credits. Standard credits are earned by successfully completing required courses; verified credits are earned by successfully completing required courses and passing associated end-of-course assessments approved by the state.

Standard Diploma: This diploma signifies that the student has met standards established by the Virginia Board of Education by earning at least 22 standard units of credit and 5 verified units of credit as shown on the chart. Standard credits are earned by successfully completing required courses; verified credits are earned by successfully completing required courses and passing associated end-of-course assessments approved by the state.

NOTE: *Once a student with disabilities has earned a Standard Diploma or Advanced Studies Diploma, YCSD's obligation to provide free appropriate public education is terminated.*

Applied Studies Diploma: In accordance with the requirements of the Standards of Quality, a student with disabilities who completes the requirements of his or her Individualized Education Plan (IEP) and does not meet the requirements for other diplomas shall be awarded an *Applied Studies Diploma*.

Certificate of Program Completion: This certificate is an option for a senior who has met the standard units of credit requirements for a *Standard Diploma* but has not earned the verified credits required for graduation. The Certificate of Program Completion is not a diploma and should only be considered once all attempts to earn a *Standard Diploma* or *Advanced Studies Diploma* have been exhausted.

Advanced Studies Diploma (26 Credits)

Discipline Area	Standard Credits Required	Verified Credits Required
English	4	2
Mathematics[1]	4	1
Laboratory Science[2]	4	1
History & Social Science[3]	4	1
World Languages[4]	3	
Health & PE	2	
Fine Arts or Career/ Technical	1	
Economics & Personal Finance	1	
Electives[6]	3	
Virtual Course[7]	✓	
First Aid/CPR/AED[8]	✓	
Total	**26**	**5**

Standard Diploma (22 Credits)

Discipline Area	Standard Credits Required	Verified Credits Required
English	4	2
Mathematics[1]	3	1
Laboratory Science[2]	3	1
History & Social Science[3]	3	1
World Language, Fine Arts, or CTE[5,9]	2	
Health & PE	2	
Economics & Personal Finance	1	
Electives[6]	4	
Virtual Course[7]	✓	
First Aid/CPR/AED[8]	✓	
Total	**22**	**5**

Explanations and Clarifications

1. Mathematics: For the *Advanced Studies Diploma*, the courses completed to satisfy this requirement shall include at least three different course selections from among Algebra I, Geometry, Algebra II, or other mathematics courses above the level of Algebra II. Per the Standards of Quality, a computer science course credit earned by students may be considered a mathematics course credit. For the *Standard Diploma*, the courses completed to satisfy this requirement shall include at least two different course selections from among: Algebra I, Geometry, Algebra, Functions and Data Analysis, or Algebra II. Computer Mathematics may be used in conjunction with Algebra I and Geometry to satisfy mathematics graduation requirements if the student also completes a career & technical education concentration. Per the Standards of Quality, a computer science course credit earned by students may be considered a mathematics course credit.

2. Science: For the *Advanced Studies Diploma*, credits must be from at least three different science disciplines: Earth science, biology, chemistry, or physics, or completion of the sequence of science courses required for the International Baccalaureate Diploma. Per the Standards of Quality, a computer science course credit may be considered a science course credit. For the *Standard Diploma*, the courses completed to satisfy this requirement shall include course selection from at least two different science disciplines. Per the Standards of Quality, a computer science course credit may be considered a science course credit.

3. History/Social Science: For the *Advanced Studies Diploma*, credits must include Virginia and U.S. History, Virginia and U.S. Government, and two courses in either world history or geography or both. For the *Standard Diploma*, credits must include Virginia and U.S. History, Virginia and U.S. Government, and one course in either world history or geography. The board shall approve courses to satisfy this requirement.

4. World Languages: For the *Advanced Studies Diploma*, credits must include three (3) years of one language or two (2) years each of two languages.

5. World Languages, Fine Arts, or Career & Technical Education: For the *Advanced Studies Diploma*, students must earn a minimum of one (1) credit in the areas of fine arts or career and technical education. A computer science course may be considered a career & technical education credit. For the *Standard Diploma*, students must earn a minimum of two credits in the areas of world languages, fine arts, or career & technical education. At least one of the credits must be in fine arts or career & technical education. Per the Standards of Quality, a computer science course may be considered a career & technical education credit.

6. Electives: For the *Advanced Studies Diploma* students must earn three (3) elective credits. For the *Standard Diploma* students must earn four (4) elective credits. Two of these electives must be sequential, as outlined in the Standards of Quality. For the *Advanced Studies Diploma*, the sequential electives may be in any discipline, as long as the courses are not specifically required for graduation as noted in the Regulations Establishing Standards for Accrediting Public Schools in Virginia (8VA20-131-51). *Additional information on sequential electives is available in Appendix A.*

7. Virtual Learning: For the *Standard Diploma* and the *Advanced Studies Diploma*, students shall successfully complete one virtual course, which may be a noncredit-bearing course or a required elective credit-bearing course that is offered online.

8. First Aid/CPR/AED: Students will be trained in emergency first aid, cardiopulmonary resuscitation, and the use of automated external defibrillators, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation. Students with an Individualized Education Program (IEP) or 504 Plan which documents that they cannot successfully complete this training shall be granted a waiver from this graduation requirement, as provided in the Regulations Establishing Standards for Accrediting Public Schools in Virginia (8VAC20-131-420 B).

9. AP, Honors, IB, Dual Enrollment, Work-Based Learning, or CTE Credential: Students shall (i) complete an Advanced Placement, honors, International Baccalaureate, or dual enrollment course; or (ii) complete a high-quality work-based learning experience, as established by board guidance on work-based learning; or (iii) earn a career and technical education credential approved by the board, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to satisfy the *Advanced Studies Diploma* requirements. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness assessment.

10. Credit Accommodations: Credit accommodations provide alternatives for eligible students with disabilities to earn verified credits required to graduate. Credit accommodations for students with disabilities may include:

- Alternative courses to meet the standard credit requirements,
- Allow Algebra I and Algebra I Math Lab Elective to each earn a standard credit towards the total number required in math,
- Additional tests approved by the Virginia Board of Education for earning verified credits.

11. Locally Awarded Verified Credit: Eligible students may earn no more than one locally awarded verified credit in English, mathematics, science, or history/social science, if earning either a *Standard Diploma* or *Advanced Studies Diploma*.

NOTE: Once a student with disabilities has earned a *Standard Diploma* or *Advanced Studies Diploma*, YCSD's obligation to provide free appropriate public education is terminated.

12. Transfer Students: See your school counselor for all graduation requirements. Visit the Virginia Department of Education's Information for Transfer Students website for more information on high school graduation requirements in the Commonwealth of Virginia.

Special Recognitions

The Standards for Accrediting Schools in Virginia, adopted by the Virginia Board of Education, establishes high school graduation requirements and certain diploma seal recognitions.

YCSD and the International Baccalaureate (IB) Programme offer additional academic recognitions. Students may earn multiple recognitions.

State Board of Education Seal: Awarded to students who earn the *Standard Diploma* or *Advanced Studies Diploma* with an average grade of "A" or better.

Governor's Seal: Awarded to students who earn an *Advanced Studies Diploma* with a "B" average or better, and who successfully complete college-level coursework to earn nine (9) transferable college credits in Advanced Placement, International Baccalaureate, Cambridge, or Dual Enrollment courses, which are all opportunities to be an Early College Scholar.

State Board of Education Career & Technical Education Seal: Awarded to students who earn the *Standard Diploma* or *Advanced Studies Diploma* and complete a prescribed sequence of courses in a career & technical education concentration or specialization **and** maintain a "B" average in those courses; **or** pass a certification examination; **or** acquire a professional license from the Commonwealth of Virginia.

State Board of Education Diploma Seal for Science, Technology, Engineering, and Mathematics (STEM): 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 & 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.

State Board of Education Seal of Biliteracy: Awarded to students who earn either a Board of Education-approved diploma and (i) pass all required End-of-Course Assessments in English reading and writing at the proficient or higher level; and (ii) are proficient at the intermediate-mid level or higher in one or more languages other than English, as demonstrated through an assessment from a list to be approved by the superintendent of public instruction.

State Board of Education Seal for Excellence in Science and the Environment: Awarded to students who meet each of the following criteria:

- Earn either a *Standard Diploma* 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.

State Board of Education Excellence in Civics Education Seal: Awarded to students who earn either a *Standard Diploma* or an *Advanced Studies Diploma* and meet each of the following criteria:

- Complete Virginia & United States History and Virginia & United States Government courses with a grade of "B" or higher.
- Have good attendance and no disciplinary infractions as determined by local school board policies.
- 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; or 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.

York County School Division Honors Seal: Awarded to students who complete the course of study for the York County School Division Honors program.

York County School Division Community Service Seal: Awarded to students who complete the requirements for York County School Division's Community Service program.

International Baccalaureate Diploma: Awarded to students who complete the course of study and exams for the International Baccalaureate Programme.

Early College Scholars: Participants in the Early College Scholars program must have a "B" average or better, must be pursuing an *Advanced Studies Diploma* with a Governor's Seal, and must complete 15 hours of college-level coursework (i.e., Advanced Placement, International Baccalaureate, or dual enrollment) that will earn at least 15 transferable college credits

PROMOTION AND CREDIT INFORMATION

Course Credits

Standard Credit: A standard unit of credit is awarded for a course in which the student successfully completes 140 clock hours of instruction and the objectives of the course.

Verified Credit: A verified unit of credit is awarded when a student earns a standard unit of credit and achieves a passing score on a corresponding end-of-course SOL test or a substitute assessment approved by the Board of Education. *See YCSD Policy IKFA – Locally Awarded Verified Credits.*

Weighted Credit: Advanced Placement (AP), advanced, Dual Enrollment (DE) or other courses are identified as "weighted credit," for which credit is increased due to the rigor of the curriculum and quality of work accomplished.

Transfer Credit: Transfer grades and credits from other school divisions will be reviewed for acceptance by the York County School Division (YCSD) provided the courses are compatible with local and state regulations. Weighted credits will be awarded only to those transfer courses that are also weighted in YCSD and will be computed according to division procedure. If a transfer student completed a weighted course in another school division prior to the academic year that the course was first offered for weighted credit by YCSD, the student will not receive weighted credit for the course. Additional information is available in school counseling offices.

Promotion

Middle school students are promoted to the next grade level based upon achievement in all subject areas and successful completion of English, history/social science, math, and science courses.

High school students are promoted based upon achievement reflected in the number of credits earned:

Grade 10	5 credits minimum
Grade 11	10 credits minimum
Grade 12	15 credits minimum

NOTE: *Rising 9th grade students are limited to take Health & PE9 or a high school credit bearing course where the credit was formally omitted.*

Grade Point Average and Class Rank

Grading Scale: High school courses taught in YCSD middle and high schools are assigned grade-point values as indicated below:

A	90-100	4 points
B	80-89	3 points
C	70-79	2 points
D	64-69	1 point
F	63 and Below	0 points

Class Rank: High school class rank is based upon the grades earned in courses for which high school credit is awarded. The Grade Point Average (GPA) for students earning non-weighted and/or weighted credit is calculated following a prescribed formula and established procedure referenced in *YCSD Superintendent Regulations, IU.*

Early Graduation

Graduating early is defined as a student seeking to complete graduation requirements for a *Standard Diploma* or *Advanced Studies Diploma*, prior to the student's cohort year of graduation. Participation in an Individual Student Alternative Education Plan (ISAEP) program or General Education Development Test (GED) program shall not be included in the definition of Early Graduation.

Families should consult their school counselor for additional information surrounding graduation requirements and the application process for requesting Early Graduation.

SCHEDULING

Students are encouraged to select rigorous courses that will provide an intellectual challenge and will also better prepare them for future courses and educational and/or career pursuits beyond high school.

Middle School Scheduling

Grade 6: Students take six (6) classes on an A/B rotation schedule including a double block for English, a double block for mathematics, a single block for physical education, and a single block for an encore course selection from the Exploratory Wheel, Beginning Band, or Introduction to Chorus. The Exploratory Wheel allows students to take four (4) nine-week electives during the school year.

Grades 7 & 8: Students take eight (8) classes on an A/B rotation schedule. Students may have double blocks for English and/or mathematics. Students take both required and elective courses.

High School Scheduling

Bruton High, Grafton High, Tabb High and York High: Operate on a seven (7) course A/B rotation schedule, with one class scheduled daily and six block classes scheduled on alternating days. Courses can be semester-long or year-long.

York River Academy: Operates on a Hybrid 4x4 schedule. The Hybrid 4x4 schedule utilizes four (4) block classes scheduled daily for one term (approximately 18 weeks). At the end of the term, students earn a full credit. Some classes meet all year on an alternating day A/B block rotation schedule.

Course Load: Students in grades 9 through 11 must take a full course load. A full course load is defined as:

- A/B schedule - seven credit-bearing courses
- Hybrid 4x4 schedule - eight credit-bearing courses

Seniors or term graduates lacking credits to meet the *Standard Diploma* graduation requirements for their cohort year may be approved to take more than seven original credit bearing courses in order to attempt on time graduation during the student's cohort year. Ninth through twelfth grade students can take no more than seven original credit bearing courses per year except for the following limited circumstances:

- Students in grades 11 and 12 who require seven courses in their schedule to meet graduation requirements, may take work-based or service learning as an 8th period.
- Students in grades 11 and 12 may be approved to take Economics and Personal Finance online as an 8th period, under specific circumstances. Please reference Superintendent Regulations, IGBGA, for additional information.

Abbreviated Schedule: Seniors or term graduates must be in good academic standing for on-time graduation to have a reduced course load. The student is responsible for transportation and may not remain on school premises during the time the student does not have any classes. A student who's schedule has less than five (5) credits will not be eligible for any Virginia High School League sanctioned activity (including, but not limited to, all athletic teams, e-sports, One-Act plays, Scholastic Bowl, Debate and Speech). Please speak with your school counselor if you are seeking an abbreviated schedule for your senior year.

Course Availability: Courses identified in the *Program of Studies* may not be offered at all schools. Factors affecting course offerings in a school may include staffing availability, low enrollment, the need for specialized equipment, and budgetary determinations. When courses are not available in a school, other options may be explored. Please see your student's school counselor for available courses at your school.

Electives: Electives must be approved by a school counselor and must be in accordance with the student's academic and career plan.

Non-YCSD Courses: High school students who wish to take courses at colleges or other institutions outside the York County School Division (YCSD) must have those courses approved in advance by the principal for high school credit to be awarded. Such courses cannot be offered by YCSD or the New Horizons Regional Education Center (NHREC), except under limited circumstances, and must be compatible with local and state regulations. Written approval must be secured from the principal prior to enrollment in the course. With the exception of the methodology used to calculate transfer credits, weighted credit will not be awarded for coursework taken outside of YCSD.

Course Selection Changes

YCSD encourages students to give serious consideration to the selection of courses during the scheduled registration period. Course changes are discouraged except as recommended by teachers for placement reasons.

Course changes must occur by the tenth day (fifth class meeting for block courses). If changes occur within the allowed timeframe, the original course and the earned grade will not appear on the student's record. The only exception to this practice will be changes within the same academic discipline. Students may move to courses with similar content but not to higher level or weighted courses. If a student changes from one course to another course within the same academic discipline, the earned grade from the first course will be prorated and averaged with the earned grade from the new course to compute the final grade.

Virtual & Blended Learning Courses

YCSD, as part of its academic program, offers engaging and interactive online courses through both our local, Virtual High School (VHS) program and Virtual Virginia (VVA), the state administered online program. Approved courses in the Program of Studies that are unavailable to a student within their individual school may be available online through either VHS or VVA as a part of their traditional schedule. Students approved to take a course virtually as a part of their traditional schedule will participate in those courses in the school's virtual lab. Juniors and seniors participating in

special programs that limit their access to elective courses may be approved to take Economics and Personal Finance as a 5th block virtually to meet Virginia and YCSD graduation requirements. Students are most successful in virtual courses if they are independent learners, have good time-management skills, and maintain a regular schedule of logging into courses and communicating with the online teacher.

Students must log into virtual courses daily and be actively engaged in online discussion and activities. They are expected to submit documents electronically, navigate learning management systems and meet online with teachers and students through a virtual classroom. Students may schedule an appointment with their school counselor to learn more about available online courses. Specific virtual course information and requirements are listed within the Course Offerings section. Students are required to take one virtual or blended learning course prior to graduation. YCSD defines blended learning as a combination of face-to-face instruction with online instruction. S*ee YCSD Policy & SREG: IGBGA Online Courses and Virtual School Programs.*

Virtual High School Summer Academy

Students who desire to accelerate or recover high school credit courses during the summer must do so through YCSD's Virtual High School (VHS) Summer Academy. This is an asynchronous online learning program designed for rising 9th grade through current 12th grade students. Course offerings for rising 9th graders are limited to Health and PE 9 and high school courses taken in middle school that the student has formally omitted. Each full-credit course is approximately 140 online instructional class hours, and each credit recovery course is approximately 70 online instructional hours. Students are limited to one original credit or two credit recovery courses per Summer Academy session. Credit recovery courses are available to students who earned an F as a final grade on their high school transcript. Summer Academy course offerings are based on sufficient enrollment and staff availability. Tuition is required for all high school credit-bearing courses. Registration information, course offerings, specific program dates, tuition rates and program details are outlined in the annual Summer Academic Programs Catalog available in the spring. *See YCSD Policy & SReg: IGBE Remedial and Summer Instruction Programs.*

SPECIALTY PROGRAMS

Advanced Placement and Advanced Courses

Certain high school courses are designated as Advanced Placement (AP) or advanced. The requirements and expectations of these courses exceed those of regular grade-level courses in a particular content area. High school students who have completed prerequisite courses are eligible for AP courses as well as Virtual Virginia AP courses.

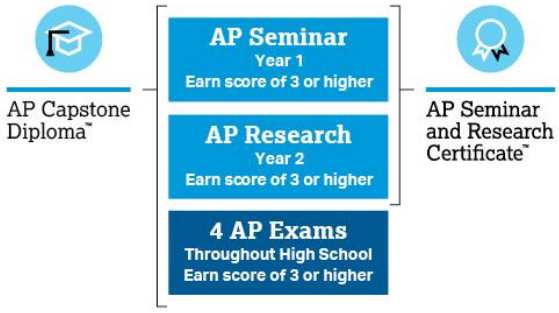
Students enrolled in an AP course are encouraged to take the AP exam for that course. Taking AP exams does not automatically enable a student to gain college credits. Credit award decisions are made by individual colleges.

AP CAPSTONE AWARDS

AP Capstone is a two-year program that equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges. AP Capstone is comprised of two AP courses – Advanced English 10: AP Seminar and AP Research. These two courses focus on helping students develop academic skills that can be utilized in any discipline. These skills include: critical thinking, collaboration, conducting research, and public speaking. Many colleges recognize AP Capstone awards in their admissions process. The two awards require the following:

- **AP Capstone Diploma** – students must earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP exams of the student's choice. These four additional exams may be taken at any time during high school.
- **AP Seminar and AP Research Certificate** – students must earn scores of 3 or higher on the AP Seminar and AP Research exam.

Please contact your school counselor for more information regarding student's individual course planning and requirements to complete one of these awards or visit apstudents.collegeboard.org.



Early College Program

The Early College Program (ECP) is a partnership between Virginia Peninsula Community College (VPCC) and York County School Division (YCSD). Eligible high school seniors are concurrently enrolled in their high school and VPCC. Students complete Dual Enrollment (DE) English 111/112 (Dual Enrollment English 12) and remaining courses required for graduation prior to winter break of their senior year. In January, students transition full time to VPCC's campus and begin a course load of at least 12 college credits. Courses taken in the spring at VPCC will follow the college schedule. Students must complete state and local graduation requirements, and have the opportunity to remain involved in sports, clubs, and activities at their home school, while earning transferable college credits at a reduced tuition rate. Participation in VHSL activities requires students to meet eligibility requirements during both the fall and spring semesters.

To be eligible for the ECP, students must have achieved a cumulative GPA of 3.0 or higher, earned passing scores on both the reading and writing end of course Standards of Learning assessments, and require limited course credits to complete graduation requirements by the beginning of their senior year. The courses offered in this program are part of the Commonwealth College Course Collaborative (CCCC). As such, ECP students must maintain a "C" average during their senior year in each of their dual enrolled and college courses to earn transferable college credit. Please consult your school counselor for additional information regarding the application process and program timelines. See YCSD Policy LEB- Advanced/Alternative Courses for Credit.

Dual Enrollment

In partnership with Virginia Peninsula Community College (VPCC), students may be eligible to receive college credit for specific courses taken in YCSD. Successfully completed Dual Enrollment (DE) courses provide students with both high school and college credit simultaneously. Students with junior or senior standing that meet VPCC's Dual Enrollment eligibility criteria may dual enroll with documentation of parent and principal approval. Dual Enrollment courses are college-level courses. Credits and grades earned in Dual Enrollment courses become a part of a student's permanent college transcript. Students interested in taking Dual Enrollment courses are

encouraged to visit Transfer Virginia to see which colleges and universities will accept transfer credit from VPCC. Dual Enrollment course offerings in schools are based upon availability of staff who meet requirements set by VPCC. Please check with your school counselor regarding available Dual Enrollment course offerings for your school. *See YCSD Policy LEB- Advanced/Alternative Courses for Credit.*

Associate's Degree Pathway/ Uniform Certificate of General Studies

Virginia Peninsula Community College (VPCC) and the York County School Division have an agreement in place that allows high school students to complete an Associate's degree or a one year Virginia Community College System (VCCS) Uniform Certificate of General Studies concurrently with a high school diploma.

Students are encouraged to begin exploring this pathway at the start of their seventh grade year as successful completion may require students to:

- Meet specific eligibility criteria (age, grade level, test scores, cumulative GPA)
- Participate in Advanced Placement (AP) courses beginning in the 9th grade
- Achieve an AP exam score of 3 or higher on associated course exams
- Apply to VPCC as a degree seeking Dual Enrollment student
- Participate in courses through VPCC during summer sessions
- Enroll in courses through VPCC during the traditional school year in addition to their YCSD required high school courses

NOTE: Families are solely responsible for tuition and related fees for courses taken through VPCC, excluding specified Dual Enrollment courses available in YCSD schools, provided by YCSD teachers.

Please contact your student's school counselor for more information regarding students individual course planning and requirements to complete these pathways.

Early College Scholars

The Early College Scholars program allows eligible high school students to earn at least 15 hours of transferable college credit while completing the requirements for an *Advanced Studies Diploma*. Participants must have a "B" average or better, must be pursuing an *Advanced Studies Diploma* with a Governor's Seal, and must complete 15 hours of college-level coursework (i.e., Advanced Placement, International Baccalaureate, or Dual Enrollment) that will earn at least 15 transferable college credits.

Governor's Health Sciences Academy

The Governor's Health Sciences Academy (GHSA) provides high school students with a rigorous course of study that will prepare them for high demand, high wage, and high skill health sciences careers.

GHSA is located at Bruton High School and is open to all YCSD students in grades 9-12. To successfully complete the program GHSA students must take a course of mathematics and science each year in high school, maintain a GPA of 2.5 or higher, earn three sequential health science elective course credits, and earn an industry certification or at least nine (9) transferrable college credits. GHSA completers will earn the Governor's Health Sciences Academy seal on their diploma.

Governor's School for Science & Technology (GSST)

The Governor's School for Science & Technology (GSST) is a two-year, half-day program, offered at the New Horizons Regional Educational Center (NHREC), for students in grades 11 and 12. Students will select a strand as the focus for their Governor's School experience. Each strand provides a unique emphasis on both the science subject matter and associated career fields. Students will be able to participate in one of the following three strands: Engineering, Biological Science, and Computational Science.

Prospective Student Pipeline

The Prospective Student Pipeline (PSP) for Governor's School provides a registration of interest in the program. Students who register for the PSP will be subscribed to the PSP Newsletter, GSST's main information portal. In addition, the student's school counselor will be alerted of the student's interest in GSST so that the school counselor can help the student select appropriate math and science courses. There are two possible entry routes for the PSP:

1. School referral – schools identify 8th and 9th grade students who meet certain academic benchmarks, and parents of these students are then invited to fill out a registration of interest.
2. Self-referral – anyone interested in receiving the newsletter can subscribe by registering through GSST's PSP website

Admissions Procedures

Final acceptance into the Governor's School is determined in the spring of students' 10th grade year. Math and science GPAs, teacher recommendations, and PSAT scores are considered.

Honors Program

The York County School Division Honors program is designed to provide students in grades 8–12 with the opportunity to complete a rigorous academic program.

Eligible students choosing to participate in this program are required to complete all program requirements listed below. For going beyond the state's requirements for an *Advanced Studies Diploma*, students who successfully complete the Honors program will be recognized with the Honors Seal on their diplomas.

Additional information on this academic opportunity is available in the school counseling office of each middle and high school.

Program Requirements

Grade 8

- Students must complete the following courses: Advanced English 8, Civics and Economics, Algebra I or Advanced Geometry, Physical Science 8, World Language I/II (French, German, Latin, Spanish), Physical Education & Lifetime Fitness 8, Elective.
- To remain in the Honors program 8th grade students may not have a final grade lower than a "C."

Grades 9-12

- Students in the Honors program must maintain a cumulative GPA of 3.25 in the ninth grade, and 3.50 in grades 10 through 12.

  Students must take a minimum of four (4) credits of the same world language. World language courses taken for high school credit and successfully completed in the seventh grade may count as one of the four consecutive years.
- Students must take a minimum of six (6) AP courses representing four (4) content areas. Dual Enrollment courses for transferable college credit and qualifying Governor's School classes may be used to meet one or more Honors Program requirements:
  - College Calculus
  - Multivariable Calculus/Linear Algebra
  - Advanced Chemical Analysis
  - Advanced Biological Analysis
  - Calculus Based Engineering Physics I and II
  - Calculus Based Engineering Physics III and IV
  - Computational Physics
  - Engineering Design Innovation & Entrepreneurship
- To remain in the Honors program, high school students must remain enrolled in a full course load each year, may not repeat a course, may not drop/withdraw from a class after the drop/add period, and may not have a final grade lower than a "C." In addition, eighth grade

  students may not expunge Algebra I or any World Language I course.
- Beginning in ninth grade, students must complete 20 hours of community service outside of school.

Additional information on this academic opportunity is available in the school counseling office of each middle and high school.

International Baccalaureate Diploma Programme

The International Baccalaureate (IB) Programme is housed at York High School. IB is a rigorous, two-year college preparatory course of study for academically talented students in grades 11 and 12. A Pre-Diploma program is available to eligible students in grades 9 and 10. Admission to the IB Pre-Diploma program and Diploma Programme is by application.

All IB courses are taught by instructors trained in IB instruction by the International Baccalaureate Organization (IBO). The courses are designed to develop strong writing, time management, and critical/higher order thinking skills in students. In addition, through these courses, each student is exposed to the internationally minded, interdisciplinary nature of the IB liberal arts curriculum.

IB courses are identified as Standard Level(SL), requiring a minimum of 150 instruction hours, or Higher Level (HL), requiring 240 instructional hours. All IB courses carry weighted credit.

Students in grades 11 and 12 who are not participating in the full IB Diploma Programme may enroll in an IB course (either SL or HL) provided there is space available, there is no equivalent AP course available, the student receives two teacher recommendations, and all course-specific prerequisites have been met.

IB Diploma Programme course students are responsible for the costs associated with the IB examination as explained in the *Student Handbook*. Students with demonstrated financial need may request a waiver of the IB examination fees from the principal.

Specific course information and IB requirements are provided within the Course Offerings section of this *Program of Studies*.

Program Requirements

- Pre-Diploma/IB students are required to have a minimum GPA of 3.25 in the ninth grade, and 3.50 in grades 10 through 12.

  NOTE: Students who do not maintain the minimum GPA will be withdrawn from the IB Diploma Programme.
- Students may not earn a final grade lower than a "C" in any course and remain in the Pre-Diploma/IB Diploma Programme. Students may not repeat a course or drop/withdraw from a class after the add/drop period. Eighth grade students accepted into the program may not expunge Algebra I, Advanced Geometry, or any World Language I or II course.
- Pre-Diploma students may opt to leave the program and re-enroll in the honors program at their home school if they meet honors requirements.

Pre-Admissions Procedures

Admission to the Pre-Diploma program for grades 9 and 10 is by application. The program prepares accepted students for participation in the IB Diploma Programme in grades 11 and 12.

Applications and information regarding the IB Diploma Programme, may be obtained from the school counseling department at each middle school or from the IB Diploma Programme Coordinator, (757) 890-5014.

Parents of students accepted into the IB Diploma Programme who are zoned for Bruton High, Grafton High, and Tabb High sign a waiver releasing the student from their zoned school to enroll them in York High School. Pre-Diploma and York High IB students have the opportunity to participate in co-curricular, extra-curricular, and athletic activities sponsored by York High School. Students opting out of the Pre-Diploma or IB Diploma Programme will return to their zoned school

unless they obtain approval from the School Board Office to remain at York High School.

Naval Sciences

The purpose of Navy Junior Reserve Officer Training Corps (NJROTC) at THS and YHS is to instill in students the value of citizenship, service to their community and the United States, personal responsibility, and a sense of accomplishment. A student must be attending a YCSD high school and be a United States citizen or admitted for permanent residence to enroll in this program.

Each NJROTC course is composed of three (3) hours of classroom work and two (2) hours of drill or physical activity each week. Frequent field trips and voluntary participation in NJROTC activities such as drill team and rifle team are additional features of the Naval Science Program.

All NJROTC cadets are eligible to participate in SAT and ACT online college preparatory programs at no cost. Participation in NJROTC offers students an advantage in competition for military academy and college ROTC scholarships. Students who complete two (2) or more years of the program are eligible to enter the military at an advanced pay grade and may be eligible to be a career & technical education completer.

School of the Arts: Middle School Arts Magnet

The Middle School Arts Magnet (mSAM) for students in grades 6 through 8 at Queens Lake Middle School provides enrichment and instruction in fine arts. Learning experiences encourage students to work independently and collaboratively to prepare performances, create exhibitions that display their appreciation of the arts, develop critical thinking and problem-solving skills, and enhance self-esteem. Excellence in the arts is a natural extension of the middle school academic program.

Students interested in mSAM should talk to their school counselor for additional information and an application.

School of the Arts

York County School of the Arts (SOA) provides high school students with an enriched and challenging fine arts educational opportunity that emphasizes academic growth and artistic development, the multidisciplinary nature of the arts, standards to differentiate between the ordinary and the extraordinary in the arts, and fine arts career opportunities.

SOA is located at Bruton High School and is open to all students in grades 9 through 12 in YCSD who maintain a GPA of 2.5 or higher and a "C" average in their SOA course(s). Transportation from York County high schools to SOA is provided for students.

Admission Procedures

Admission to SOA is by application and audition. SOA eligibility requires three letters of recommendation, demonstration of ability, reading comprehension on or above grade level, and a minimum GPA of 2.5. Information about the SOA program can be found on the Bruton High School Website under School of the Arts or by contacting Bruton High School at (757)220-4050.

NOTE: *Participation in the Middle School Arts Magnet program does not guarantee admission to the School of the Arts.*

York River Academy

York River Academy (YRA), a charter school operated by YCSD on the campus of Yorktown Middle School, is designed to provide selected students in grades 9 through 12 with an innovative academic and career-preparatory education in core subject areas with an emphasis on computer technology while working toward a *Standard Diploma* or an *Advanced Studies Diploma*.

At YRA, instructional activities are student-centered with teachers using collaborative approaches and blended instruction that prepare students for success in the classroom and the world of work. Applications for YRA are available in school counseling offices at each middle and high school. Contact the YRA Principal at (757) 898-0516 for additional information.

THE 17 CAREER CLUSTERS

A Career Cluster is a grouping of occupations and broad industries based on commonalities. Career Clusters help students investigate careers and design their courses of study to advance their career goals. For this reason, Virginia has adopted the nationally accepted structure of 17 Career Clusters, career pathways and sample career specialties or occupations.

Within each career cluster, there are multiple career pathways that represent a common set of skills and knowledge, both academic and technical, necessary to pursue a full range of career opportunities within that pathway – ranging from entry level to management, including technical and professional career specialties.

AGRICULTURE, FOOD & NATURAL RESOURCES

The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources include food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

ARCHITECTURE & CONSTRUCTION

Careers in designing, planning, managing, building and maintaining the built environment.

ARTS, A/V TECHNOLOGY & COMMUNICATIONS

Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

BUSINESS MANAGEMENT & ADMINISTRATION

Careers in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.

EDUCATION & TRAINING

Planning, managing and providing education and training services, and related learning support services.

ENERGY

Designing, planning, maintaining, generating, transmission, and distribution of traditional and alternative energy.

FINANCE

Planning, services for financial and investment planning, banking, insurance, and business financial management.

GOVERNMENT & PUBLIC ADMINISTRATION

Executing governmental functions to include governance, national security, Foreign Service, planning, revenue and taxation, regulation, and management and administration at the local, state, and federal levels.

HEALTH SCIENCE

Planning, managing, and providing therapeutic services, diagnostic services, health information, support services, and biotechnology research and development.

HOSPITALITY & TOURISM

Hospitality & Tourism encompasses the management, marketing, and operations of restaurants and other food services, lodging, attractions, recreation events, and travel related services.

HUMAN SERVICES

Preparing individuals for employment in career pathways that relate to families and human needs.

INFORMATION TECHNOLOGY

Building linkages in the IT occupation framework: for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multi-media, and systems integration services.

LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY

Planning, managing, and providing legal, public safety, protective services, and homeland security, including professional and technical support services.

MANUFACTURING

Planning, managing, and performing the processing of materials into intermediate or final products, and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

MARKETING

Planning, managing, and performing marketing activities to reach organizational objectives.

SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

TRANSPORTATION, DISTRIBUTION AND LOGISTICS

Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water, and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance

Agriculture, Food & Natural Resources	The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

Pathways in this Cluster

- Agribusiness Systems
- Animal Systems
- Environmental Service Systems
- Food Products & Processing Systems
- Natural Resources Systems
- Plant Systems
- Power, Structural & Technical Systems

Sample Career Options

Diploma with Some Training	Certification or Associate's Degree	Bachelor's Degree or Above
Florist	Biological Technician	Botanist
Landscaper/Groundskeeper	Environmental Technician	Ecologist
Pest Control	Fish/Game Warden	Environmental Engineer
Veterinary Assistant	Veterinarian Technician	Veterinarian

Related YCSD Elective Courses

Middle School	High School	New Horizons Regional Education Center
Career Investigations	Career Internship	Veterinary Science I & II
Energy, Architecture, and the Environment (PLTW)	Career Mentorship	
Engineering Design & Problem Solving	Credit for Work Experience	
Family & Consumer Science Courses	Ecology	
Introduction to Forensic Science	Intro to Natural Resources and Ecology Systems	
Introduction to Technology	Geospatial Technology I	
Inventions and Innovations	Nutrition & Wellness	
Make It Your Business		
Technological Systems		

CareerClusters® PATHWAYS TO COLLEGE & CAREER READINESS Architecture & Construction	Careers in designing, planning, managing, building and maintaining the built environment.

Pathways in this Cluster

Construction
Design/Pre-Construction
Maintenance/Operations

Sample Career Options

Diploma with Some Training	Certification or Associate's Degree	Bachelor's Degree or Above
Architectural Drafter Construction Worker Roofer	Carpenter Electrician HVAC Mechanic Plumber	Architect Construction Manager Civil Engineer

Related YCSD Elective Courses

Middle School	High School	New Horizons Regional Education Center
Career Investigations Energy, Architecture, and the Environment (PLTW) Engineering Design & Problem Solving Family & Consumer Science Courses Introduction to Technology Inventions & Innovations Make It Your Business Technological Systems	Advanced Drawing/Design/ CAD Architectural Drawing/Design/CAD Basic Technical Drawing/Design/CAD Career Internship Career Mentorship Credit for Work Experience Geospatial Technology I	Building Construction I, II & III Electricity & Renewable Energy I & II Heating, Ventilation, Air Conditioning & Refrigeration Plumbing and Pipefitting I & II

CareerClusters® PATHWAYS TO COLLEGE & CAREER READINESS Arts, A/V Technology & Communications	Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Pathways in this Cluster

A/V Technology & Film
Printing Technology
Visual Arts
Performing Arts
Journalism & Broadcasting
Telecommunications

Sample Career Options

Diploma with Some Training	Certification or Associate's Degree	Bachelor's Degree or Above
Actor, Dancer, Musician Printing Equipment Operator	Broadcast Technician Desktop Publisher Stylist Photographer/Videographer	Computer Animator Graphic Artist Journalist

Related YCSD Elective Courses

Middle School	High School	New Horizons Regional Education Center
Art/Drama/Band/Chorus Career Investigations Intro to Programming & Game Design Introduction to Technology Inventions & Innovations Make It Your Business Technology Systems Writers' Roundtable Yearbook/Public Speaking	Art/Drama/Band/Chorus Career Internship Career Mentorship Credit for Work Experience Design, Multimedia & Web Technologies Film Studies A & B Game Design & Development I & II Literary Magazine/Mass Media I & II Newspaper/Mass Media I & II Programming Public Speaking: Presentation Yearbook/Mass Media I & II	

CareerClusters® PATHWAYS TO COLLEGE & CAREER READINESS Business Management & Administration	Careers in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.

Pathways in this Cluster

Business Information Management	Administrative Support
General Management	Operations Management
Human Resources Management	

Sample Career Options

Diploma with Some Training	Certification or Associate's Degree	Bachelor's Degree or Above
Administrative Assistant	Claims Adjuster	Certified Public Accountant
Customer Service Representative	Legal Assistant	Finance Director
Receptionist	Office Manager	Human Resources Manager

Related YCSD Elective Courses

Middle School	High School	New Horizons Regional Education Center
Criminal Justice	Career Internship	
Career Investigations	Career Mentorship	
Computer Solutions	Credit for Work Experience	
Make It Your Business	Entrepreneurship Education I & II	
Public Speaking	Principles of Business and Marketing	
	All Marketing I & II courses	

CareerClusters® PATHWAYS TO COLLEGE & CAREER READINESS Education & Training	Planning, managing and providing education and training services, and related learning support services.

Pathways in this Cluster

Administration & Administrative Support	
Professional Support Services	
Teaching/Training	

Sample Career Options

Diploma with Some Training	Certification or Associate's Degree	Bachelor's Degree or Above
Child Care Worker	Para-Educator	Principal
Coach	Preschool Teacher	School Counselor
Library Assistant		Speech-Language Pathologist
		Teacher

Related YCSD Elective Courses

Middle School	High School	New Horizons Regional Education Center
Art/Band/Drama/Chorus	Career Internship	Early Childhood Education I & II
Career Investigations	Career Mentorship	
Computer Solutions	Credit for Work Experience	
Family & Consumer Science Courses	Psychology	
Make It Your Business	Sociology	
Public Speaking	Virginia Teachers for Tomorrow I & II	
Writers' Roundtable		

CareerClusters® PATHWAYS TO COLLEGE & CAREER READINESS Energy	Designing, planning, maintaining, generating, transmission, and distribution of traditional and alternative energy.

Pathways in this Cluster

Fuel Production	Energy Transmission, Distribution, Storage
Power Generation	Energy Sustainability and Efficiency

Sample Career Options

Diploma with Some Training	Certification or Associate's Degree	Bachelor's Degree or Above
Gas Plant Operators Plumbers, Pipefitters Steamfitters	Electrical Power-line Installers and Repairers Electrical and Electronics Repairers Powerhouse, Substation	Electrical Engineer Mechanical Engineer

Related YCSD Elective Courses

Middle School	High School	New Horizons Regional Education Center
Career Investigations Energy, Architecture, and the Environment (PLTW) Engineering Design & Problem Solving Introduction to Technology Inventions and Innovations Make It Your Business Technological Systems	Career Internship Career Mentorship Credit for Work Experience	Electricity and Renewable Energy I & II

CareerClusters® PATHWAYS TO COLLEGE & CAREER READINESS Finance	Planning, services for financial and investment planning, banking, insurance, and business financial management.

Pathways in this Cluster

Accounting	Banking Services
Business Finance	Insurance
Securities & Investments	

Sample Career Options

Diploma with Some Training	Certification or Associate's Degree	Bachelor's Degree or Above
Bank Teller Insurance Clerk	Claims Agent Tax Preparer	Accountant Economist Financial Planner

Related YCSD Elective Courses

Middle School	High School	New Horizons Regional Education Center
Career Investigations Computer Solutions Family & Consumer Science Courses Make It Your Business Public Speaking	Accounting I & II Career Internship Career Mentorship Credit for Work Experience Economics & Personal Finance Entrepreneurship Education I & II Life Planning	

CareerClusters® PATHWAYS TO COLLEGE & CAREER READINESS **Government & Public Administration**	Executing governmental functions to include: governance, national security, foreign service, planning, revenue and taxation, regulation, and management and administration at the local, state, and federal levels.

Pathways in this Cluster

- Foreign Service
- Governance
- National Security
- Planning
- Public Management & Administration
- Regulation
- Revenue & Taxation

Sample Career Options

Diploma with Some Training	Certification or Associate's Degree	Bachelor's Degree or Above
Air Crew Members Court, Municipal, and License Clerks Traffic Technicians	Construction and Building Inspectors Legislative Assistant	Financial Examiners Real Estate Appraisers and Assessors Urban and Regional Planners

Related YCSD Elective Courses

Middle School	High School	New Horizons Regional Education Center
Career Investigations Criminal Justice Digital Journalism Computer Solutions Make It Your Business Public Speaking Writers Roundtable	Career Internship Career Mentorship Credit for Work Experience Navy JROTC I, II, III & IV Geospatial Technology I	

CareerClusters® PATHWAYS TO COLLEGE & CAREER READINESS **Health Science**	Planning, managing, and providing therapeutic services, diagnostic services, health information, support services, and biotechnology research and development.

Pathways in this Cluster

- Therapeutic Services
- Diagnostic Services
- Health Informatics
- Support Services
- Biotechnology Research & Development

Sample Career Options

Diploma with Some Training	Certification or Associate's Degree	Bachelor's Degree or Above
Dental Assistant Home Health Aide Nursing Assistant	Dental Hygienist Licensed Practical Nurse (LPN) EMT	Dentist Registered Nurse (RN) Physician

Related YCSD Elective Courses

Middle School	High School	New Horizons Regional Education Center
Career Investigations Intro to Forensic Science Make It Your Business Health and Medical Sciences Exploratory	Career Internship Career Mentorship Credit for Work Experience Emergency Medical Technician I & II Intro to Health & Medical Sciences Medical Administration Medical Terminology Sports Medicine I & II	Dental Careers I & II Emergency Medical Technician I, II & III Medical Assistant I & II Nurse Aide I & II Pharmacy Technician I & II Physical and Occupational Therapy I & II Veterinary Science I & II

CareerClusters® PATHWAYS TO COLLEGE & CAREER READINESS Hospitality & Tourism	Hospitality & Tourism encompasses the management, marketing, and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.

Pathways in this Cluster

- Restaurants & Food/Beverage Services
- Lodging
- Travel & Tourism
- Recreation, Amusements & Attractions

Sample Career Options

Diploma with Some Training	Certification or Associate's Degree	Bachelor's Degree or Above
Cook Guest Services Representative Tour Guide	Food Service Manager/Chef Hotel Manager Travel Agent	Director of Tourism Event Planner Marketing Manager

Related YCSD Elective Courses

Middle School	High School	New Horizons Regional Education Center
Career Investigations Digital Journalism Computer Solutions Family & Consumer Science Courses Make It Your Business Public Speaking Writers' Roundtable	Career Internship Career Mentorship Credit for Work Experience Nutrition & Wellness Principles of Business and Marketing Sports and Entertainment Marketing I Sports and Entertainment Management II	Culinary Arts I & II

CareerClusters® PATHWAYS TO COLLEGE & CAREER READINESS Human Services	Preparing individuals for employment in career pathways that relate to families and human needs.

Pathways in this Cluster

- Early Childhood Development & Services
- Counseling & Mental Health Services
- Family & Community Services
- Personal Care Services
- Consumer Services

Sample Career Options

Diploma with Some Training	Certification or Associate's Degree	Bachelor's Degree or Above
Hair Stylist Personal Fitness Trainer	Cosmetologist Grief Counselor Massage Therapist	Licensed Professional Counselor Social Worker Volunteer Coordinator

Related YCSD Elective Courses

Middle School	High School	New Horizons Regional Education Center
Career Investigations Criminal Justice Family & Consumer Science Courses Make It Your Business Public Speaking	Business Management Career Internship Career Mentorship Credit for Work Experience Life Planning Nutrition & Wellness	Cosmetology I & II Culinary Arts I & II Early Childhood Education I & II

CareerClusters® PATHWAYS TO COLLEGE & CAREER READINESS Information Technology	Building linkages in the IT occupation framework: for entry level, technical and professional careers related to the design, development, support and management of hardware, software, multi-media, and systems integration services.

Pathways in this Cluster

Information Support & Services	Programming & Software Development
Network Systems	Web & Digital Communications

Sample Career Options

Diploma with Some Training	Certification or Associate's Degree	Bachelor's Degree or Above
Computer Repair Technician Data Entry Help Desk Technician	Database Administrator Web Designer	Computer Programmer Network Administrator Software Engineer

Related YCSD Elective Courses

Middle School	High School	New Horizons Regional Education Center
Career Investigations Computer Science Discoveries Computer Solutions Design and Robotics (PLTW) Engineering Design & Problem Solving Intro to Programming & Game Design Inventions and Innovations IT Fundamentals Make It Your Business Technological Systems	AP Computer Science A AP Computer Science Principles Career Internship Career Mentorship Computer Information Systems I & II Computer Science Foundations Computer Science Principles Credit for Work Experience Cybersecurity Fundamentals Design, Multimedia & Web Technologies Game Design & Development I & II Information Technology Fundamentals Programming Geospatial Technology I	Cisco Networking I & II Computer Programming & Gaming Applications Cybersecurity Systems Technology Cybersecurity Operations

CareerClusters® PATHWAYS TO COLLEGE & CAREER READINESS Law, Public Safety, Corrections & Security	Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.

Pathways in this Cluster

Correction Services	Law Enforcement Services
Emergency & Fire Management Services	Legal Services
Security & Protective Services	

Sample Career Options

Diploma with Some Training	Certification or Associate's Degree	Bachelor's Degree or Above
Emergency Dispatcher Firefighter/Police Officer Security Guard	Court Reporter Paralegal	Attorney Emergency Management Director Probation Officer

Related YCSD Elective Courses

Middle School	High School	New Horizons Regional Education Center
Criminal Justice Introduction to Forensic Science Make It Your Business Public Speaking Writers' Roundtable	Career Internship Career Mentorship Credit for Work Experience Geospatial Technology I	Criminal Justice Emergency Medical Technician I, II & III Firefighting I & II

CareerClusters® PATHWAYS TO COLLEGE & CAREER READINESS Manufacturing	Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

Pathways in this Cluster

Production	Quality Assurance
Manufacturing Production & Process Development	Logistics & Inventory Control
Maintenance, Installation & Repair	Health, Safety & Environmental Assurance

Sample Career Options

Diploma with Some Training	Certification or Associate's Degree	Bachelor's Degree or Above
Dispatcher Forklift Operator Welder	Industrial Engineering Technician Safety Coordinator	Quality Engineer Safety Engineer

Related YCSD Elective Courses

Middle School	High School	New Horizons Regional Education Center
Career Investigations Design and Robotics (PLTW) Engineering Design & Problem Solving Intro to Technology Inventions and Innovations Make It Your Business Technological Systems	Career Internship Career Mentorship Credit for Work Experience Basic Technical Drawing/Design/CAD Engineering Drawing/Design/CAD Advanced Drawing/Design/CAD Marketing Management	Mechatronics I, II & III Virtual Machining and Design I & II Welding I & II

CareerClusters® PATHWAYS TO COLLEGE & CAREER READINESS Marketing	Planning, managing, and performing marketing activities to reach organizational objectives.

Pathways in this Cluster

Marketing Management	Marketing Communications
Professional Sales	Marketing Research
Merchandising	

Sample Career Options

Diploma with Some Training	Certification or Associate's Degree	Bachelor's Degree or Above
Shipping/Receiving Clerk Telemarketer	Real Estate Sales Agent Sales Representative	Market Research Analyst Public Relations Manager

Related YCSD Elective Courses

Middle School	High School	New Horizons Regional Education Center
Art/Drama/Chorus Career Investigations Digital Journalism Make It Your Business Public Speaking Writers' Roundtable	Career Internship Career Mentorship Credit for Work Experience Principles of Business and Marketing All Marketing I & II courses Fashion Marketing I & II Sports and Entertainment Marketing I Sports and Entertainment Management II	

CareerClusters® PATHWAYS TO COLLEGE & CAREER READINESS **Science, Technology, Engineering & Mathematics**	Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

Pathways in this Cluster

Engineering & Technology
Science & Math

Sample Career Options

Diploma with Some Training	Certification or Associate's Degree	Bachelor's Degree or Above
Drafter Field Crew Surveyor	CAD Technician Electronics Technician Survey Technician	Aerospace Engineer Chemist Statistician

Related YCSD Elective Courses

Middle School	High School	New Horizons Regional Education Center
Career Investigations Computer Solutions Design and Robotics (PLTW) Energy, Architecture, and the Environment (PLTW) Engineering Design & Problem Solving Intro to Programming & Game Design Introduction to Technology Inventions and Innovations Make It Your Business Technological Systems	Advanced Drawing/Design/CAD Aerospace Technology Basic Technical Drawing/Design/CAD Career Internship Career Mentorship Credit for Work Experience Engineering Drawing/Design/CAD Geospatial Technology I Intro to Natural Resources and Ecology Systems Programming Unmanned Aircraft Systems	Mechatronics I, II & III

CareerClusters® PATHWAYS TO COLLEGE & CAREER READINESS **Transportation, Distribution & Logistics**	Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Pathways in this Cluster

Transportation Operations
Logistics Planning & Management Services
Warehousing & Distribution Center Operations
Facility & Mobile Equipment Maintenance
Transportation Systems/Infrastructure Planning, Management & Regulation
Health, Safety & Environmental Management
Sales and Service

Sample Career Options

Diploma with Some Training	Certification or Associate's Degree	Bachelor's Degree or Above
Dispatcher Mechanic Truck Driver	Avionics Technician Customs Inspector Flight Attendant	Air Traffic Controller Pilot Port Manager

Related YCSD Elective Courses

Middle School	High School	New Horizons Regional Education Center
Career Investigations Design and Robotics (PLTW) Engineering Design & Problem Solving Introduction to Technology Inventions and Innovations Make It Your Business Public Speaking Technological Systems	Aerospace Technology Career Internship Career Mentorship Credit for Work Experience Unmanned Aircraft Systems Geospatial Technology I	Auto Body and Collision Technology I & II Automotive Technology I & II Marine Service Technology

COURSE OFFERINGS

The following section provides information on courses offered by the York County School Division. Grade-level designations represent the grade at which most students take the course described. Exceptions to the stated grade levels may be made to meet the educational needs of an individual student. Detailed information about courses and programs is available in the school counseling office at each school.

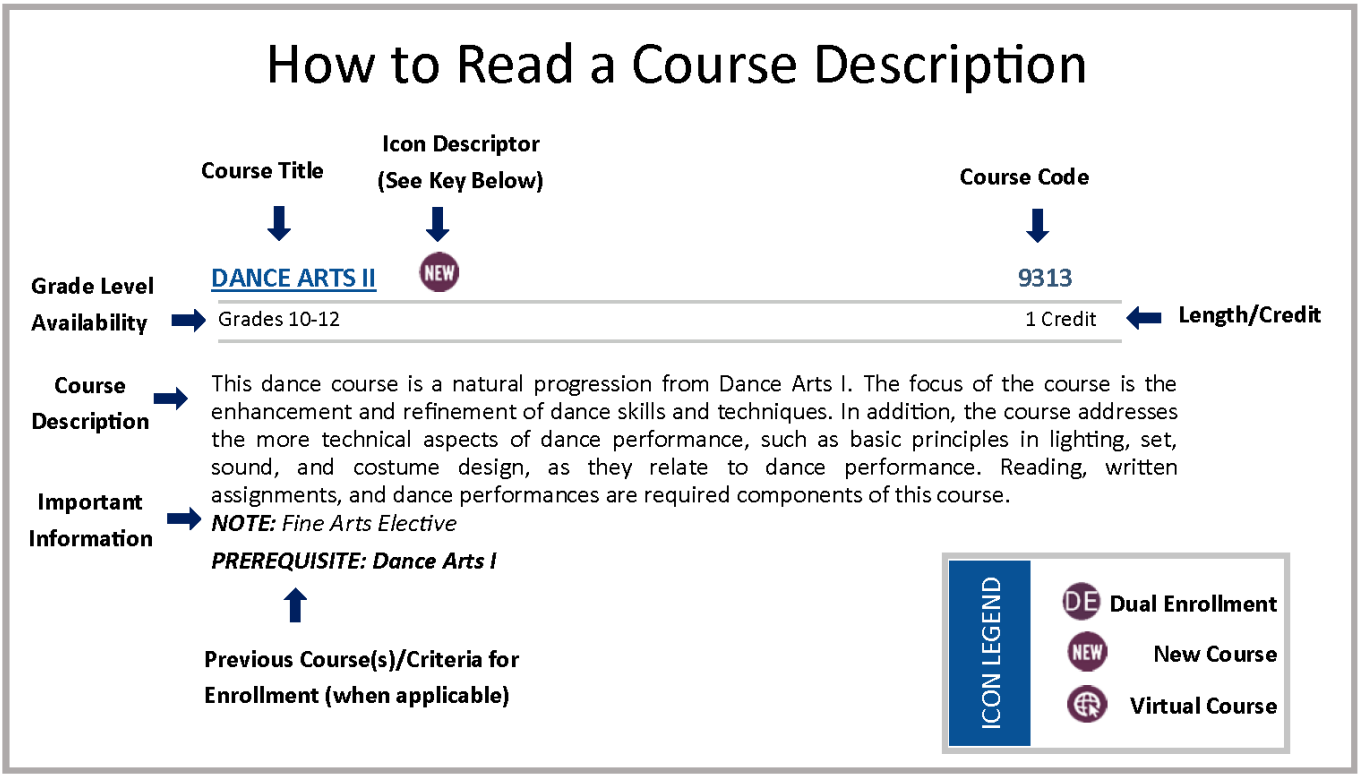
NOTE: *Courses in this Program of Studies may not be offered at all schools*.

High School Courses Taken in Middle School

Course credit is awarded upon successful completion of identified course offerings. If a middle school student successfully completes a high school credit course, the credit earned is counted for the specified subject required for graduation, and for meeting the total number of units required for graduation. The grades earned are included when calculating the student's grade point average.

Course Fees

Please be aware that some courses may have fees attached to them. If these fees would prevent you from taking the course, please see your school counselor for assistance.



CAREER AND TECHNICAL EDUCATION

Career & Technical Education (CTE) courses are designed to prepare young people for productive futures while meeting the commonwealth's need for well-trained and industry-certified technical workers. A sequence of courses can provide students with entry-level employment skills for internships, apprenticeships and preparation for industry certification.

- *Students must earn a minimum of one credit in fine arts or career & technical education to earn an Advanced Studies Diploma. Students must earn a minimum of two credits in the areas of world languages, fine arts, or career & technical education to earn a Standard Diploma. At least one of the credits must be in fine arts or career & technical education.*
- *All CTE courses listed meet the Career & Technical Education credit requirements for graduation. CTE courses are offered in the following categories: Business & Information Technology, Family & Consumer Sciences, Health & Medical Sciences, Marketing Education, and Technology Education.*
- *CTE courses offer opportunities for students to earn industry certifications or state licenses. These industry credentials add value to a student's transcript and resume, validate knowledge and skills based on industry standards, increase job opportunities, and boost potential earnings. Exam availability varies by school and are subject to change. For questions regarding exam availability, please contact your CTE teacher or Career Coach. Additional industry credentialing exams are available through New Horizons Regional Education Center courses.*
- *The New Horizons Regional Education Center (NHREC) provides additional opportunities for students throughout the region who have met prescribed prerequisites. Courses available at NHREC are detailed in the Specialty Programs Course Offerings section of this Program of Studies. For additional information about NHREC, call (757) 766-1100.*
- *If YCSD or NHREC courses offer off site learning experiences such as internship, mentorship, clinical, cooperative education, etc. students are responsible for their own transportation to and from the off campus work-based learning location.*
- *As graduation requirements vary based on graduation year and diploma type, please refer to page 3 for additional information.*

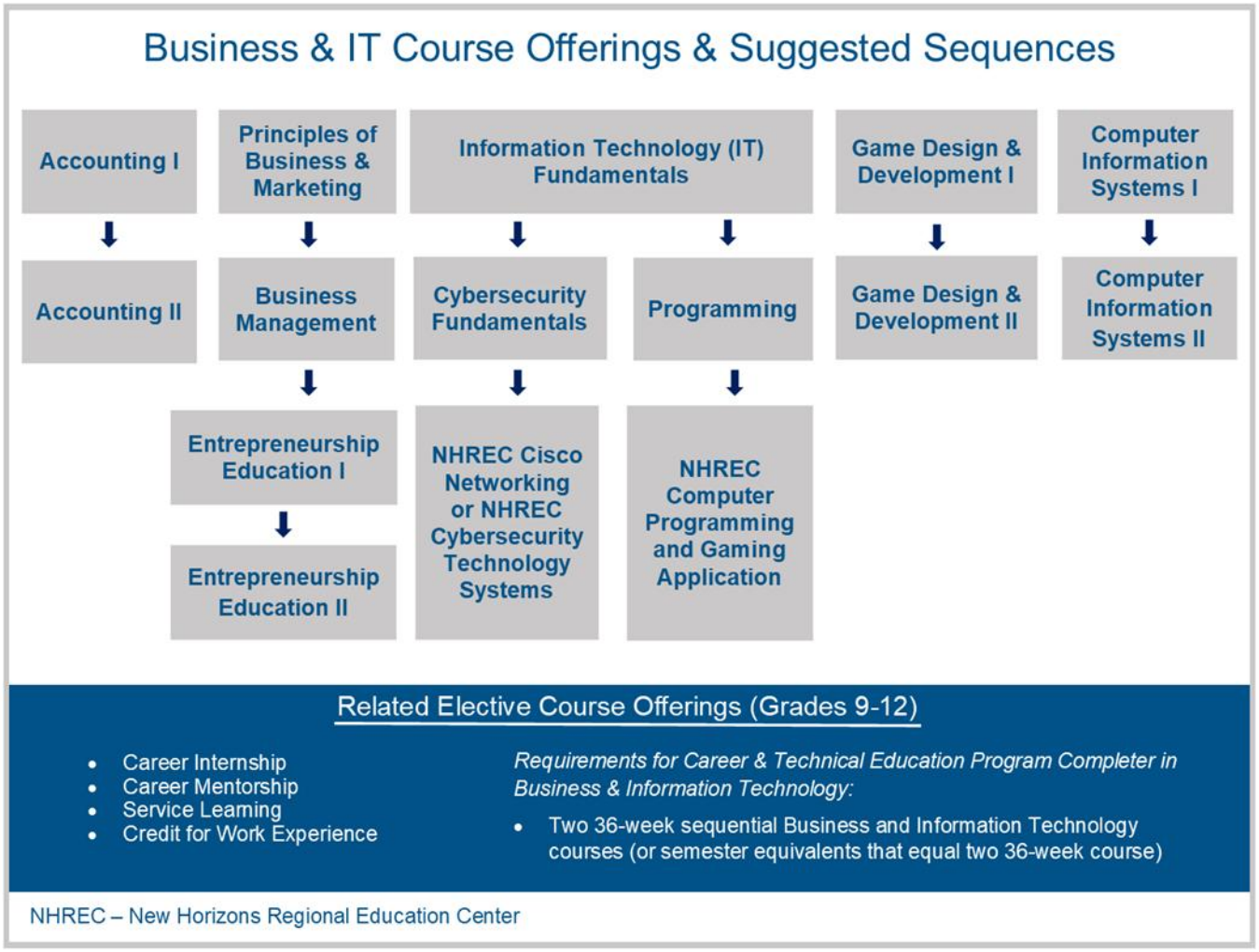
Agriculture

NEW INTRODUCTION TO NATURAL RESOURCES & ECOLOGY SYSTEMS 8230

Grades 11-12 — 1 Credit

This course serves as the introductory-level course for the Agriculture Career Pathway. Students will explore environmental science, conservation management, and the
study of natural resources to develop the knowledge and skills required for employment in occupations and careers related to ecology, forestry, and wildlife and natural resources management.
NOTE: This course is only offered at York High School

Business & Information Technology



MIDDLE SCHOOL COURSE OFFERINGS

COMPUTER SOLUTIONS 6 — 6607

Grade 6 — Quarter

Students are introduced to computing devices and software as problem-solving tools. Students complete a variety of projects incorporating word processing, database, presentation, and spreadsheet software. Basic Internet safety, coding, and device maintenance are components of this course.

COMPUTER SOLUTIONS I — 66077

Grades 7-8 — Semester

Students learn skills to use computing devices and software as problem-solving tools. Students complete a variety of projects incorporating word processing, database, presentation, and spreadsheet software. Basic Internet safety, coding, and device maintenance are components of this course. Emphasis is placed on the application and analysis of technologies to solve problems.

COMPUTER SOLUTIONS II — 66078

Grade 7-8 — Semester

Students expand their understanding of computers as problem-solving tools. Emphasis is placed on using software to evaluate and create products such as documents, multimedia presentations, databases, graphs, charts, and webpages. A review of Internet safety, coding, and device maintenance are components of this course.

PREREQUISITES: Computer Solutions I

INFORMATION TECHNOLOGY (IT) FUNDAMENTALS 6670

Grade 8 — 1 Credit

This course focuses on skills related to information technology basics: internet fundamentals, network systems, computer maintenance, upgrading, and troubleshooting; computer applications, programming graphics, web page design, and interactive media. Students explore ethical issues related to computers and internet technology, and develop teamwork and communication skills. This course prepares students to take the IC3 certification exam.

MAKE IT YOUR BUSINESS 8114

Grades 7-8 — Semester

Students design, establish, and operate a small-group or class business, producing a service or product that meets an identified school or community need. Emphasis is placed on the introduction and application of business terminology, basic entrepreneurship concepts, and fundamental business principles. Basic academic skills (mathematics, science, English, and history/social science) are integrated into this course.

HIGH SCHOOL COURSE OFFERINGS

ACCOUNTING I 6320

Grades 10-12 — 1 Credit

In this course, students study the basic principles, concepts, and practices of the accounting cycle. Students use computers to complete projects and assignments.

ACCOUNTING II 6321

Grades 11-12 — 1 Credit

This course provides students in-depth knowledge of accounting procedures and techniques utilized in solving business problems and in making financial decisions. Students use the calculator, computer, and accounting software, with emphasis on electronic spreadsheets, to analyze and interpret business applications.

PREREQUISITE: Accounting I

BUSINESS MANAGEMENT 6136

Grades 9-12 — 1 Credit

In this course, students study basic management concepts and leadership styles as they explore business ownership, planning, economics, international business, and human relations issues. Students also explore the foundations of economic and social concepts as they relate to legal principles and to business laws.

COMPUTER INFORMATION SYSTEMS I 6612

Grades 10-12 — 1 Credit

In this course, students apply problem-solving skills to real-life situations through database, spreadsheet, word processing, and presentation software with integrated activities. Various digital input technologies, including speech recognition, are covered. This course prepares students to take the industrial certification exam to become a Microsoft Office Specialist (MOS).

COMPUTER INFORMATION SYSTEMS II 6613

Grades 11-12 — 1 Credit

In this course, students expand upon the skills acquired in Computer Information Systems I by designing web pages and using integrated applications. Various digital input technologies, including speech recognition, are covered.

PREREQUISITE: Computer Information Systems I

CYBERSECURITY FUNDAMENTALS 6302

Grades 9-12 — 1 Credit

Cybersecurity affects every individual, organization, and nation. This course focuses on the evolving and all-pervasive technological environment with an emphasis on securing personal, organizational, and national information. Students will be introduced to the principles of cybersecurity, explore emerging technologies, examine threats and protective measures, and investigate the diverse high-skill, high-wage, and high-demand career opportunities in the field of cybersecurity.

CYBERSECURITY OPERATIONS 6304

Grades 10-12 — 1 Credit

Cybersecurity Operations is designed to teach computer and network administration and security. Students learn cybersecurity concepts, including the practice of protecting systems, networks, and programs from digital attacks. Students learn to establish, implement, and maintain security networks. 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.

NOTE: This course is only taught at York River Academy

PREREQUISITE: Cybersecurity Fundamentals

DESIGN, MULTIMEDIA & WEB TECHNOLOGIES I 6630

Grades 10-12 1 Credit

This course covers design techniques used to create a variety of publications using desktop publishing software. Students enhance their presentation skills through the use of multimedia hardware and software. Web page design and development concepts are also covered. This course prepares students to take the industrial certification exam to become a Microsoft Office Specialist (MOS).

NOTE: This course is only taught at York River Academy

DESIGN, MULTIMEDIA & WEB TECHNOLOGIES II 6631

Grades 10-12 1 Credit

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 resume, certifications earned, and a variety of print, multimedia, and website projects produced in the course.

NOTE: This course is only taught at York River Academy

PREREQUISITE: Design, Multimedia & Web Technologies I

ECONOMICS AND PERSONAL FINANCE B6120

Grades 9-12 1 Credit

Students learn how to navigate the financial decisions they must face and to make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living independently, and inheritance. 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 this course may study concepts that prepare them for entry-level employment in the field of finance. While students may take this course in grades 9-12, it is recommended that students take this course in the 10th or 11th grade due to graduation requirements.

NOTE: This blended-learning course is required for all students

ENTREPRENEURSHIP EDUCATION I 9093

Grades 11-12 1 Credit

This course introduces students to the exciting world of creating, owning, and launching their own businesses. Students will learn concepts and techniques for planning an entrepreneurial venture, using design thinking and business model development. Students will learn about financial statements, marketing principles, sales and customer service, and basic economic principles for successful operation.

ENTREPRENEURSHIP EDUCATION II 9094

Grade 12 1 Credit

Building upon concepts introduced in *Entrepreneurship Education I*, this course is designed for students who wish to concentrate on advanced strategies for entrepreneurship. The focus of the course is on the development of a business plan and small business management. Students will establish, market, and maintain a business.

PREREQUISITE: Entrepreneurship Education I

GAME DESIGN AND DEVELOPMENT I 8400

Grades 9-12 1 Credit

The game design industry is the fastest revenue-growing entertainment medium and has created many new job disciplines. In this project-based course, students will create innovative games through the application of graphic design, animation, audio, and writing skills. Students will work in teams while developing problem-solving, critical thinking, and effective communication skills. They will analyze, design, prototype, and critique interactive games within a project management environment. Career opportunities across multiple industries, including the entertainment and educational arenas, will be explored.

PREREQUISITE: Algebra I

GAME DESIGN AND DEVELOPMENT II 8401

Grades 10-12 1 Credit

Students will work collaboratively in teams to refine their game design skills as they apply graphic design, animation, audio and writing skills to create innovative games for education and entertainment. This project-based course enhances problem solving, project management, and communication skills through the analysis, design, construction, and critique of interactive games. Students will learn about career opportunities in game design and development and investigate the training and certification requirements.

PREREQUISITE: Game Design and Development I

INFORMATION TECHNOLOGY (IT) FUNDAMENTALS 6670

Grades 9-12 1 Credit

This course focuses on skills related to information technology basics: internet fundamentals, network systems, computer maintenance, upgrading, and troubleshooting; computer applications, programming graphics, web page design, and interactive media.

Students explore ethical issues related to computers and internet technology, and develop teamwork and communication skills. This course prepares students to take the IC3 certification exam.

PRINCIPLES OF BUSINESS & MARKETING 6115

Grades 9-10 1 Credit

This course provides students with a foundational understanding of business and marketing concepts. Students will develop career skills and examine economics; social, environmental, and ethical responsibilities; and current trends in the field as they prepare to be responsible consumers and leaders in business and marketing roles.

PROGRAMMING 6650

Grades 9-12 1 Credit

Students explore programming concepts, use algorithmic procedures, implement programming procedures with one or more standard languages, and master programming fundamentals. Coding is used throughout the course. Graphical user interfaces may be used as students design and develop interactive multimedia applications, including game programs. In addition, students employ hypertext markup language (HTML) or JavaScript to create web pages.

PREREQUISITE: Algebra I

Family & Consumer Science

MIDDLE SCHOOL COURSE OFFERINGS

FAMILY AND CONSUMER SCIENCES EXPLORATORY I 8206

Grade 6 | Quarter

Family and Consumer Sciences Exploratory I provides a foundation for managing individual, family, career, and community roles and responsibilities. In FACS Exploratory I, students focus on areas of individual growth such as personal goal achievement, responsibilities within the family, and accountability for personal safety and health. They also explore and practice financial management, clothing maintenance, food preparation, positive and caring relationships with others, and self-assessment as related to career exploration. Students apply problem-solving and leadership skills as they progress through the course. Mathematics, science, English, social science, fine arts, and technology are integrated throughout the course.

FAMILY AND CONSUMER SCIENCES EXPLORATORY II 8263

Grades 7-8 | Semester

Family and Consumer Sciences Exploratory II provides a foundation for managing individual, family, work, and community roles and responsibilities. Students focus on their individual development as well as their relationships and roles within the family unit. They learn how to maintain their living and personal environments and to use nutrition and wellness practices. Students apply consumer and family resources, develop textile, fashion, and apparel concepts, and explore careers related to family and consumer sciences. Time is provided for developing education and early childhood concepts and leadership skills. In this course students will complete a career inventory, learn about career clusters and pathways, and demonstrate workplace readiness skills.

FAMILY AND CONSUMER SCIENCES EXPLORATORY III 8244

Grades 7-8 | Semester

Family and Consumer Sciences Exploratory III provides a foundation for managing individual, family, career, and community roles and responsibilities. In FACS III, students focus on their individual roles in the community as well as how the community influences individual development. Students develop change-management and conflict-resolution skills and examine how global concerns affect communities. Students enhance their knowledge of nutrition and wellness practices and learn how to maximize consumer and family resources. This course helps students apply textile, fashion, and apparel concepts to their daily lives and provides background on the stages of early childhood development as related to childcare. Time is provided for exploring careers in the FACS career cluster and developing job-search skills. Students increase their leadership abilities and explore how volunteerism aids communities. Mathematics, science, language, social science, and technology are integrated throughout the course. Students will also complete a career inventory, learn about career clusters and pathways, and demonstrate workplace readiness skills.

HIGH SCHOOL COURSE OFFERINGS

LIFE PLANNING 8227

Grades 9-12 | 1 Credit

Life Planning equips students with life skills. Relevant life applications emphasize creating and maintaining healthy relationships, practicing personal nutrition, health and wellness, and developing a life-management plan.

NUTRITION AND WELLNESS 8229

Grades 9-12 | 1 Credit

Students enrolled in Nutrition and Wellness focus on understanding wellness, investigating principles of nutrition, using science and technology in food management, ensuring food safety, planning menus and preparing food, and exploring careers in the field of nutrition and wellness. Critical thinking and practical problem solving are emphasized.

VIRGINIA TEACHERS FOR TOMORROW I 9062

DE DUAL ENROLLMENT DE-9062

Grades 11-12 | 1 Weighted Credit

Virginia Teachers for Tomorrow (VTfT) 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.

NOTE: Dual Enrollment option available through Shenandoah University. Weighted credit only available for Dual Enrollment students. If students want to earn Dual Enrollment credit, they must meet admission and course placement requirements of the college. Requirements for admission include the completion of

an application for admission to the college and demonstration of readiness for college through Grade Point Average (GPA), placement testing or eligible assessments. Student will be responsible for all or a portion of costs associated with Dual Enrollment courses to include but not limited to tuition, textbooks, certification exam, uniform, equipment, materials, and supplies.

PREREQUISITE: Students must submit an application to be considered for enrollment in the program.

VIRGINIA TEACHERS FOR TOMORROW II 9072

DE DUAL ENROLLMENT DE- 9072

Grade 12 1 Weighted Credit

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.

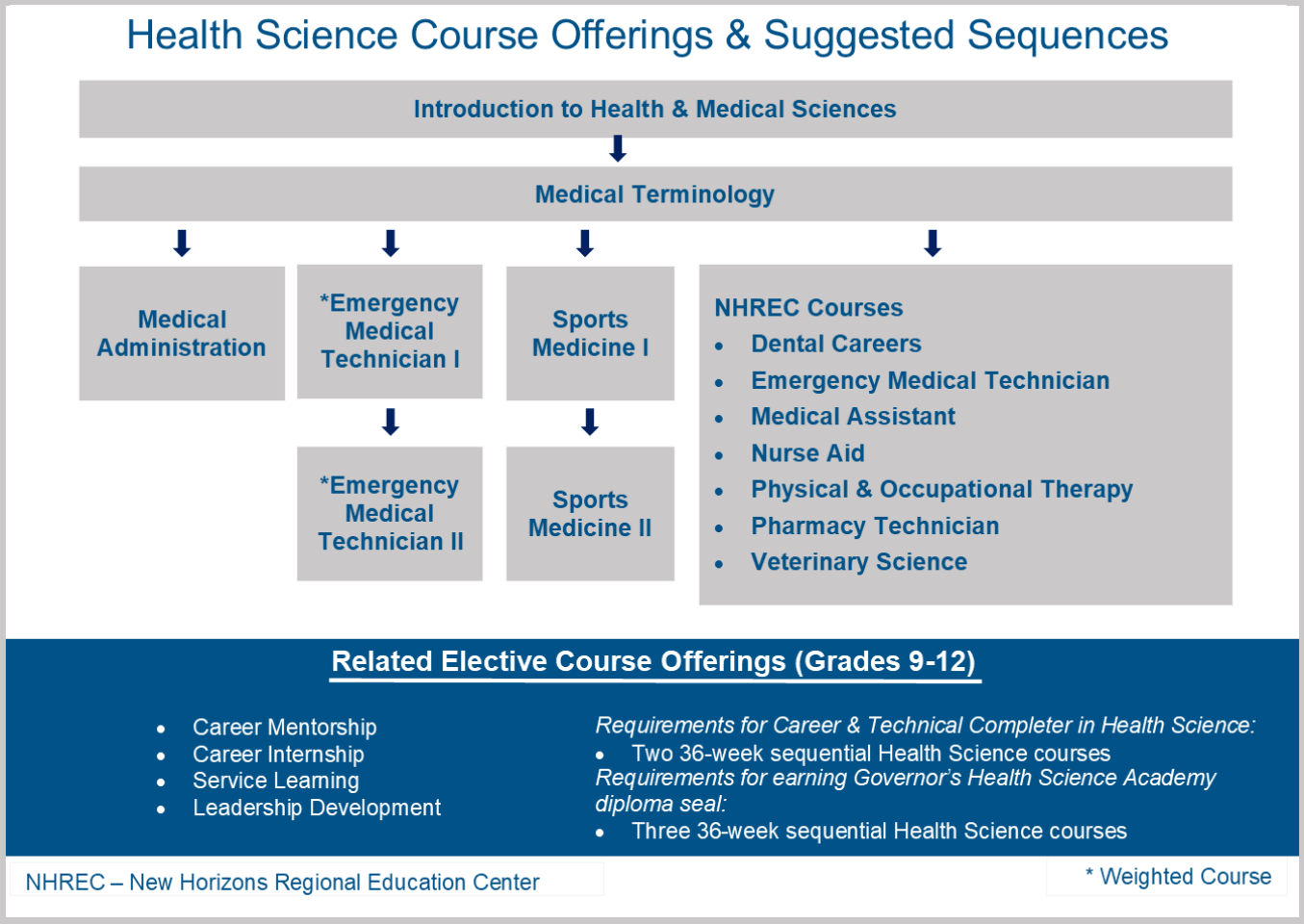
NOTE: Dual Enrollment option available through Shenandoah University. Students must have approval from Virginia Teachers for Tomorrow I teacher. Weighted credit

only available for Dual Enrollment students. If students want to earn Dual Enrollment credit, they must meet admission and course placement requirements of the college.

Requirements for admission include the completion of an application for admission to the college and demonstration of readiness for college through Grade Point Average (GPA), placement testing or eligible assessments. Student will be responsible for all or a portion of costs associated with Dual Enrollment courses to include but not limited to tuition, textbooks, certification exam, uniform, equipment, materials, and supplies.

PREREQUISITE: Virginia Teachers for Tomorrow I (VTfT)

Governor's Health Sciences Academy



MIDDLE SCHOOL COURSE OFFERINGS

HEALTH AND MEDICAL SCIENCES EXPLORATORY 8370

Grade 7-8 Semester

Students explore health and medical sciences careers and related clusters, participate in interactive activities, and receive an overview of the healthcare industry. Course content includes the criteria for entering various healthcare careers. Students gain communication, problem solving, and critical thinking skills.

NOTE: This course is offered at Queens Lake Middle School.

HIGH SCHOOL COURSE OFFERINGS

INTRODUCTION TO HEALTH AND MEDICAL SCIENCES 8302

Grades 9-12 1 Credit

This course introduces students to a variety of health occupations. This survey course is appropriate for students interested in careers that require post-secondary education as well as careers that require an associate's degree or certification.

MEDICAL TERMINOLOGY 8383

Grades 10-12 1 Credit

This course is designed to help students learn health care language. Topics are presented in logical order beginning with each body system's anatomy and physiology, and progressing through pathology, diagnostic procedures, therapeutic interventions, and finally pharmacology. Students learn concepts, terms, and abbreviations for each topic.

RECOMMENDED PREREQUISITE: Introduction to Health and Medical Sciences

NEW MEDICAL ADMINISTRATION 9098

Grades 11-12 1 Credit;

In this course students learn administrative procedures necessary to be productive employees in a healthcare environment. Students will manage office activities, enhance communication and employability skills, identify legal and ethical issues in healthcare practices, and manage financial activities. This course is especially recommended for students planning a future in the healthcare field.

PREREQUISITES: Medical Terminology

DE EMERGENCY MEDICAL TECHNICIAN I DE-8333

DE EMERGENCY MEDICAL TECHNICIAN II DE-8334

Grades 11-12 2 Weighted Credits

Students explore and apply the fundamentals of EMS, anatomy, physiology, and medical terminology while demonstrating skills in assessing and managing patient care, including assessing the scene and understanding shock, resuscitation, and trauma. Students build their knowledge and skills for providing basic life support by focusing on the areas of EMS operations, medical emergencies, and management of special patient populations.

NOTE: This course is Dual Enrolled with Virginia Peninsula Community College (VPCC) and will take place at the VPCC Historic Triangle campus. This course prepares students for state and national certifications. Students must be at least 16 years old prior to the first day of EMT instruction. Students successfully completing the course will earn 8 VPCC credits. Students must meet admission and course placement requirements of the college. Requirements for admission include the completion of an application for admission to the college and demonstration of readiness for college through Grade Point Average (GPA), placement testing or eligible assessments. Student will be responsible for all or a portion of costs associated with Dual Enrollment courses to include but not limited to tuition, textbooks, certification exam, uniform, equipment, materials, and supplies

SPORTS MEDICINE I 8316

Grades 11-12 1 Credit

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.

PREREQUISITES: Introduction to Health and Medical Sciences and Medical Terminology

SPORTS MEDICINE II 8317

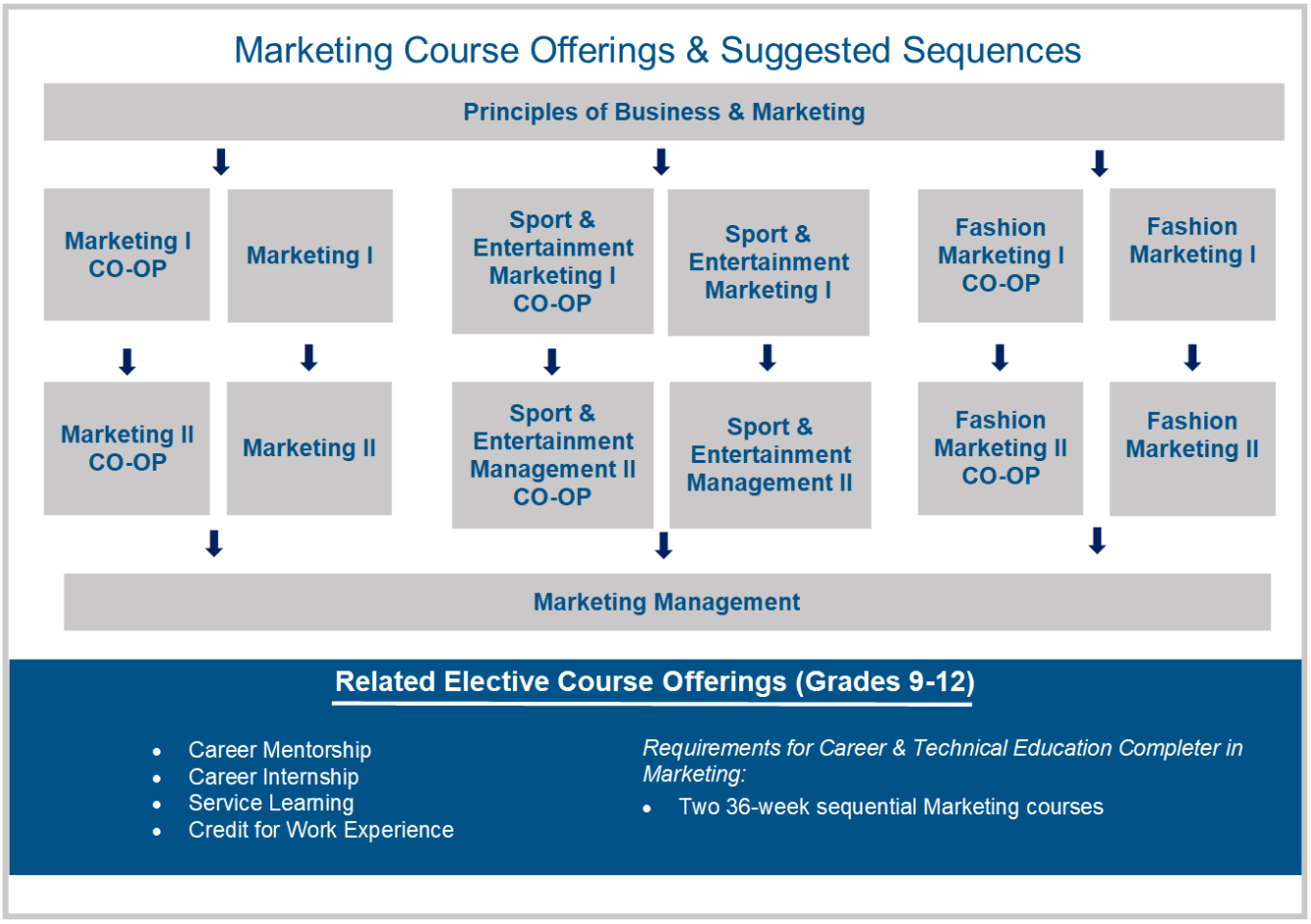
Grade 12 1 Credit

Upon successful completion of this course, students will be eligible to take the National Academy of Sports Medicine-Certified Personal Trainer (NASM-CPT) exam. This course builds upon basic knowledge acquired in Sports Medicine I on topics such as exercise physiology, biomechanics, exercise program design, and injury prevention, assessment, treatment, and management. Students prepare for a career in sports medicine, including completing an internship.

PREREQUISITES: Introduction to Health and Medical Sciences, Medical Terminology, and Sports Medicine

Marketing Education

- *The Marketing Education program prepares students for full-time employment in retail, wholesale, and service businesses.*
- *Cooperative Education (CO-OP) combines classroom instruction with a minimum of 280 hours of supervised on-the-job training. Training occurs in an approved local marketing business and is coordinated by the marketing teacher-coordinator during the school year. On-the-job training during summer months may be applied toward the 280 hours if documented by a training plan and supervised by the teacher-coordinator, for Level II students. Students may earn one additional credit for completing an additional 280 hours of coordinated work experience (560).*
- *Contextual instruction and student participation in co-curricular career and technical student organization (DECA) activities will develop leadership, interpersonal, and career skills. High-quality work-based learning 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.*



HIGH SCHOOL COURSE OFFERINGS

FASHION MARKETING I/CO-OP **81401**
FASHION MARKETING I **81402**

Grades 10-12 — CO-OP 2 Credits, 1 Credit

This course leads students into the exciting and ever-changing world of fashion. Students gain knowledge of marketing as it relates to the fashion industry. From brick-and-mortar retail establishments to online retail and social media marketing, students will explore aspects such as trends, technology, the buying process, visual merchandising, the nature and history of fashion and fashion designers, and the global impact of the fashion industry on the economy. The course explores career options and develops workplace readiness skills. Academic skills related to the content are part of this course.

FASHION MARKETING II/CO-OP **81451**
FASHION MARKETING II **81452**

Grades 11-12 | CO-OP 2 Credits, 1 Credit

This advanced-level course prepares students for a career in the global fashion industry. Students gain deeper knowledge of the field and apply skills in marketing. Students explore sustainability, social responsibility, entrepreneurship, technology applications, buying, portfolio development, and careers. The course explores career options and develops workplace readiness skills. Academic skills related to the content are part of this course.

PREREQUISITE: Fashion Marketing I or Fashion Marketing I/CO-OP

MARKETING I/CO-OP 81201
MARKETING I 81202

Grades 10-12 | CO-OP 2 Credits, 1 Credit

Students will learn how products are developed, branded, and sold. They will analyze industry trends and gain hands-on experience in the marketing of goods, services, and ideas and be prepared for success in postsecondary education and employment. Topics include professionalism in the workplace, product planning and positioning, promotion, pricing, selling, economic issues, and changes in the marketplace. The course explores career options and develops workplace readiness skills.

MARKETING II/CO-OP 81301
MARKETING II 81302

Grades 11-12 | CO-OP 2 Credits, 1 Credit

In this course, students learn to leverage marketing activities to best differentiate themselves and their businesses. They will participate in supervisory and management activities focusing on the marketing mix, purchasing, financing, human resources, global marketing, pricing, distribution, selling, operations research, and promotion. Students will prepare for marketing careers and postsecondary education, continuing to enhance self-presentation, communication, and leadership skills. The course explores career options and develops workplace readiness skills.

PREREQUISITE: Marketing I or Marketing I/CO-OP

MARKETING MANAGEMENT 8132

Grade 12 | 1 Credit

This course is designed for high school students interested in a career in marketing, business, or management and/or who have plans to manage or own a business. Students will be exposed to all aspects of marketing and management, including branding, digital marketing, promotion, communication, and career opportunities in marketing. This course will prepare students for industry certifications. The course explores career options and develops workplace readiness skills.

PRINCIPLES OF BUSINESS & MARKETING 6115

Grades 9-10 | 1 Credit

This course provides students with a foundational understanding of business and marketing concepts. Students will develop career skills and examine economics; social, environmental, and ethical responsibilities; and current trends in the field as they prepare to be responsible consumers and leaders in business and marketing roles.

SPORTS & ENTERTAINMENT MARKETING I/CO-OP 81751
SPORTS & ENTERTAINMENT MARKETING I 81752

Grades 10-12 | CO-OP 2 Credits, 1 Credit

This course helps students develop a thorough understanding of fundamental marketing concepts and theories as they relate to the sports and entertainment industries. Students will investigate the components of customer service, branding, product development, pricing and distribution, business structures, sales processes, digital media, sponsorships and endorsements, as well as promotion needed for sports and entertainment events. The course explores career options and develops workplace readiness skills.

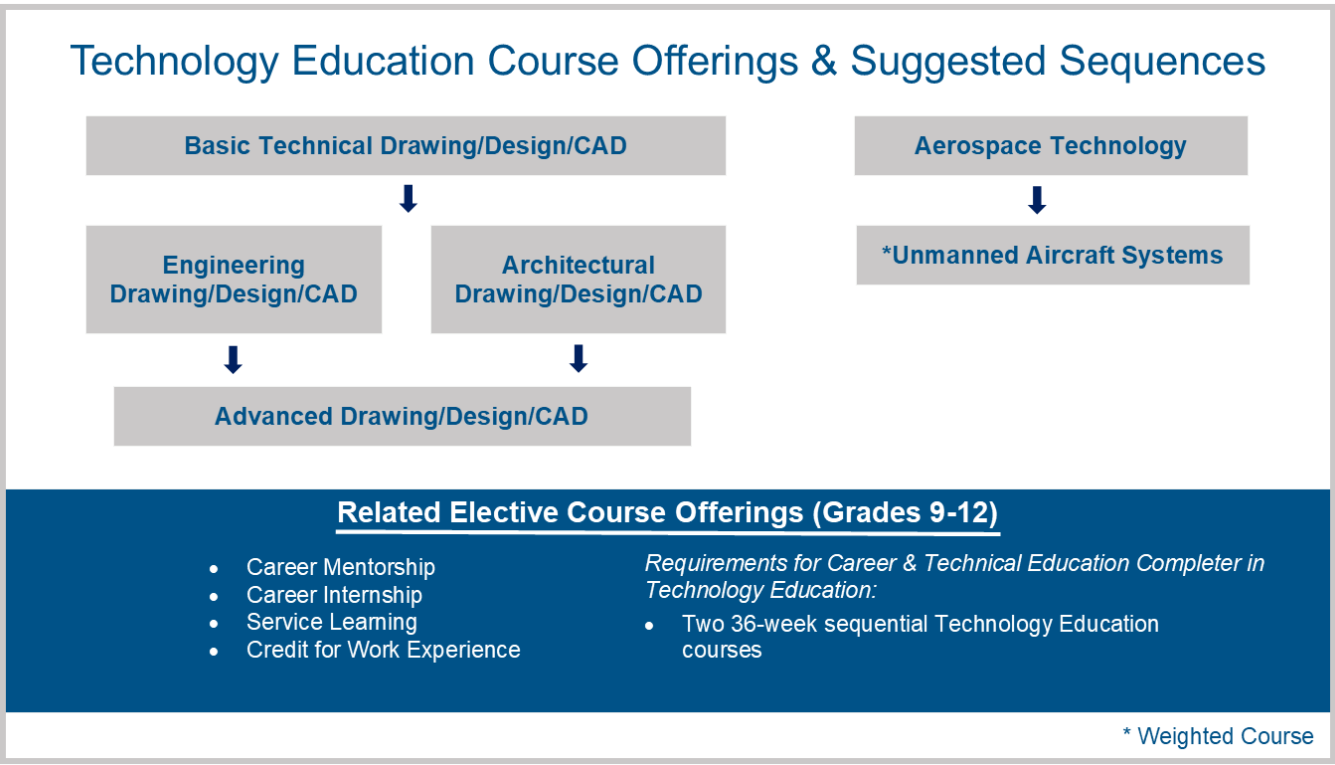
SPORTS & ENTERTAINMENT MANAGEMENT II/CO-OP 81771
SPORTS & ENTERTAINMENT MANAGEMENT II 81772

Grades 11-12 | CO-OP 2 Credits, 1 Credit

Students will build on prior knowledge of sports and entertainment marketing. This course focuses on the principles of management and planning supported by research and by financial, economic, ethical, and legal concepts. Students will be able to plan and execute an event, establish a sports, entertainment, or recreation marketing product/business, and develop a career plan. The course explores career options and develops workplace readiness skills.

PREREQUISITE: Sports and Entertainment Marketing I or Sports and Entertainment Marketing I/CO-OP

Technology Education



MIDDLE SCHOOL COURSE OFFERINGS

DESIGN AND ROBOTICS (PLTW) AR8476 DM8476

Grades 7-8 — Semester

Students learn about the history and impact of automation and robotics as they explore mechanical systems, energy transfer, machine automation, and computer control systems. Students discover the design process and develop an understanding of the influence of creativity and innovation in their lives. They are then challenged and empowered to use and apply what they've learned throughout the unit to design a therapeutic toy for a child who has cerebral palsy.

ENERGY, ARCHITECTURE, AND THE ENVIRONMENT (PLTW) EE8479 GA8479

Grades 7-8 — Semester

Students are challenged to think big and toward the future as they explore sustainable solutions to our energy needs and investigate the impact of energy on our lives and the world. They use what they've learned to design and model alternative energy sources, as well as evaluate options for reducing energy consumption. Students learn how to apply green concepts to the fields of architecture and construction. They explore dimensioning, measuring, and architectural sustainability and apply what they have learned to design affordable housing units using architectural design software.

INTRODUCTION TO TECHNOLOGY 8481

Grade 6 — Quarter

This course offers introductory experiences in technology that encourage creative problem solving and hands-on activities. The course also provides experiences using microcomputers, design simulations, and mechanical models as technological tools.

INVENTIONS & INNOVATIONS 8464

Grades 7-8 — Semester

The focus of this course is inventions and innovation technology. Students study tools and machines, power and energy, transportation, and communication. Students apply skills with individual creativity to create models and inventions. Students will also complete a career inventory, learn about career clusters and pathways, and demonstrate workplace readiness skills.

TECHNOLOGICAL SYSTEMS 8463

Grades 7-8 Semester

Students utilize hands-on activities to understand a systems approach to solving problems and understanding technology. Working in teams, students rotate through a number of activities including constructing models, producing items, and using computers to describe and control systems. The impact of technology on the students' world and future careers is addressed. Students will also complete a career inventory, learn about career clusters and pathways, and demonstrate workplace readiness skills.

HIGH SCHOOL COURSE OFFERINGS

ADVANCED DRAWING/DESIGN/CAD 8438

Grades 11-12 1 Credit

This course provides advanced computer applications in drawing and design with emphasis on isometric, oblique, perspective, and auxiliary views, revolutions, multi-view projection, and working drawings.

PREREQUISITES: Basic Technical Drawing/Design/CAD, and Engineering Drawing/Design/CAD or Architectural Drawing/Design/CAD

AEROSPACE TECHNOLOGY 8487

Grades 9-11 1 Credit

Aerospace Technology offers an introduction to the aerospace industry through a hands-on approach and exploration of topics such as flight, space, and supporting technologies. Students explore the aviation and space industries by examining the history of aviation, aerodynamics and aircraft components, flight conditions, airport and flight operations, space systems, rocketry, and living and working in space.

ARCHITECTURAL DRAWING/ DESIGN/CAD 8437

Grades 10-12 1 Credit

This course permits students to learn more about the principles of architecture and related drafting practices and techniques, building on the knowledge and skills mastered in Basic Technical Drawing/Design/CAD. The course provides information helpful for students wishing to pursue a career in architecture, interior design, or building construction.

PREREQUISITE: Basic Technical Drawing/Design/CAD

BASIC TECHNICAL DRAWING/ DESIGN/CAD 8435

Grades 9-12 1 Credit

Basic Technical Drawing/Design/CAD is a foundation course. Students use traditional and CAD methods to design, sketch, and make technical drawings, models, or prototypes of real design problems. The course is especially recommended for future engineering and architectural students.

ENGINEERING DRAWING/ DESIGN/CAD 8436

Grades 10-12 1 Credit

This course permits students to experience the graphic language of industry for engineers, manufacturers, and technicians. Students continue in greater depth the drawing problems, skills, and techniques presented in Basic Technical Drawing/Design/CAD. Emphasis is placed on interpretation of industrial prints, ability to use handbooks with other resource materials, and adherence to established standards for drafting. This course covers important aspects of the application of drafting principles to typical engineering drawing and design problems.

PREREQUISITE: Basic Technical Drawing/Design/CAD

NEW GEOSPATIAL TECHNOLOGY I 8439

Grades 11-12 1 Credit

In this course, you'll explore how technology is used to study the Earth. You'll work with global positioning systems (GPS), satellite images, and digital maps to collect and analyze data. You'll learn how to solve real-world problems—

like tracking storms, planning cities, or mapping forests—using tools such as Geographic Information Systems (GIS) and remote sensing. This hands-on class will show you how geospatial technology is used in careers like environmental science, urban planning, and emergency response.
NOTE: This course is only offered at York High School

UNMANNED AIRCRAFT SYSTEMS DE-8910

Grades 11-12 1 Weighted Credit

Unmanned Aircraft Systems prepares students to fly drones under the Federal Aviation Administration's (FAA) Part 107 guidelines. Students get an overview of the national airspace system, FAA regulations, and the design and operation of small drones. Students monitor weather, address loading and performance of drones, and coordinate flight operation logistics. They perform administrative tasks, train to fly, and, finally, fly small, unmanned aircraft systems (sUAS).
NOTE: This course is Dual Enrolled with Virginia Peninsula Community College (VPCC). Students must meet admission and course placement requirements of the college. Requirements for admission include the completion of an application for admission to the college and demonstration of readiness for college through Grade Point Average (GPA), placement testing or eligible assessments. Students must be 16 to take the certification test and receive the FAA Part 107 Remote Pilot Certificate.

COMPUTER SCIENCE

Computer Science (CS) is the study of computation, information, and automation. It encompasses both theoretical disciplines and practical applications. CS courses provide students with an opportunity to explore CS concepts at a greater depth and to prepare them for the workforce, postsecondary training, or higher education.

MIDDLE SCHOOL COURSE OFFERINGS

COMPUTER SCIENCE DISCOVERIES 982809

Grades 7-8 Semester

Computer Science Discoveries is an introductory computer science course that empowers students to create authentic artifacts and engage with computer science as a medium for creativity, communication, and problem solving. This course inspires students as they design and program websites, apps, and robots.

HIGH SCHOOL COURSE OFFERINGS

COMPUTER SCIENCE FOUNDATIONS 10012

Grades 9-12 1 Credit

This course provides an emphasis on computer programming within the context of broader concepts of computer science. The course builds on the concepts of computer science developed in prior grade levels. The course provides a transition from block-based programming to a text-based programming language and familiarizes the student with developing and executing computer programs. Programmable computing tools are used to facilitate design, analysis, and implementation of computer programs. Students will use these tools for exploring and creating computer programs, facilitating reasoning and problem solving, and verifying solutions.

COMPUTER SCIENCE PRINCIPLES 10011

Grades 10-12 1 Credit

Computer Science Principles builds on the concepts introduced in the Computer Science Foundations course (10012). Students in this course will expand their programming skills and begin to think about and analyze their own problem-solving process. Students will continue to develop the ideas and practices of computational thinking and consider how computing impacts the world. Programmable computing tools are used to facilitate design, analysis, and implementation of computer programs. Students will use these tools for exploring and creating computer programs, facilitating reasoning and problem solving, and verifying solutions.

PREREQUISITE: Computer Science Foundations

AP COMPUTER SCIENCE A 3185

1 Weighted Credit

This course offers a further exploration of computer skills and applications using Java programming language. Students taking this course are encouraged to take the AP Exam.

PREREQUISITE: Algebra II or Algebra II/Trigonometry

AP COMPUTER SCIENCE PRINCIPLES 10160

1 Weighted Credit

AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course introduces students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns and computing impacts. The course instructional materials are based on concepts outlined by the College Board and prepares students to take the Advanced Placement Computer Science Principles: Examination.

PREREQUISITE: Algebra I

ENGLISH

English courses provide instruction in oral language, informational text reading literary text reading, writing and grammar, research, and vocabulary. Students engage in whole-class and independent reading and analysis activities. Teachers offer small group instruction and independent practice opportunities tailored to students' specific needs. Teachers provide feedback on student work, including writing, with opportunities to apply skills learned in multiple modalities.

Placement of students in specific middle school and high school English courses is based on factors that may include one or more of the following: previous English performance, English SOL performance, standardized test scores, and teacher/administrator recommendation.

As graduation requirements vary based on graduation year and diploma type, please refer to page 3 for additional information

English Course Offerings & Suggested Sequences

English 6 or Advanced English 6

⬇

English 7 or Advanced English 7

⬇

English 8 or Advanced English 8

⬇

English 9 or *Advanced English 9

⬇

English 10 or *Advanced English 10: AP Seminar

⬇

English 11, *AP English 11 or *DE English 11

⬇

English 12, *AP English 12, or *DE English 12

English Elective Course Offerings (Grades 9-12)

- Creative Writing: Poetry
- Creative Writing: Prose
- Public Speaking: Communication
- Public Speaking: Presentation
- Film Studies A & B
- Literary Magazine / Mass Media 1 & II
- Yearbook / Mass Media I & II
- Newspaper / Mass Media I & II
- *AP Research

* Weighted Course

MIDDLE SCHOOL COURSE OFFERINGS

ENGLISH 6 — 1109

Grade 6 — Year

In this course, students will independently read a variety of fiction, narrative nonfiction, nonfiction, and poetry for appreciation and comprehension. Students will plan, draft, revise, and edit narrative, descriptive, expository, and persuasive writing with attention to composition and written expression, as well as sentence formation, usage, and mechanics. Students will also begin the study of word origins and continue vocabulary development. Technology will be used as a tool to research, organize, and communicate information. Critical thinking will be stressed.

ADVANCED ENGLISH 6 — 11091

Grade 6 — Year

This course provides an opportunity for students to independently read a variety of fiction, narrative nonfiction, nonfiction, and poetry for appreciation and comprehension. Students will compare literary elements, participate in shared inquiry discussions, formulate questions, build generalizations, and give academic responses to literature. Students will also plan, draft, revise, and edit narrative, descriptive, expository, and persuasive writing with attention to composition and written expression, as well as sentence formation, usage, and mechanics. Students will begin the study of word origins and continue vocabulary development. Technology will be used as a tool to research, organize, and communicate information.

ENGLISH 7 — 1110

Grade 7 — Year

In this course, students will read a wide variety of fiction, nonfiction, and poetry while becoming more independent and analytical. Learning opportunities will enable students to strengthen their comprehension, retain important concepts and information, and develop public speaking, listening, and presentation skills. Students will use the writing process to develop narrative, expository, and persuasive writing and begin to read and write critically about literature. Students will continue the study of word origins and continue vocabulary development. Technology will be used as a tool to research, organize, and communicate information.

ADVANCED ENGLISH 7 — 11101

Grade 7 — Year

This course provides an opportunity for students to read a wide variety of fiction, nonfiction, and poetry while becoming more independent and analytical. Students will compare literary elements, participate in shared inquiry discussions, formulate questions, build generalizations, and give academic responses to literature. Students will learn to analyze their own writing and set goals to improve their grammar, usage, mechanics, and/or organizational skills. Students will continue the study of word origins and continue vocabulary development. Technology will be used as a tool to research, organize, and communicate information.

ENGLISH 8 — 1120

Grade 8 — Year

This course provides an opportunity for students to continue to develop an appreciation for literary genres through a study of a wide variety of selections while becoming more independent and analytical. Students will compare literary elements, participate in shared inquiry discussions, formulate questions, build generalizations, and give academic responses to literature. Students will analyze their own writing and set goals to improve their grammar, usage, mechanics, and/or organizational skills. Students will continue the study of word origins and continue vocabulary development. Technology will be used as a tool to research, organize, and communicate information.

ADVANCED ENGLISH 8 — 11201

Grade 8 — Year

This course provides an opportunity for students to develop an appreciation for literary genres through a study of a wide variety of selections while becoming more independent and analytical. Students will compare literary elements, participate in shared inquiry discussions, formulate questions, build generalizations, and give academic responses to literature. Students will develop analytical and critical thinking skills through close reading, commentary, and literary critique. Students will analyze their own writing and set goals to improve their grammar, usage, mechanics, and/or organizational skills, and will continue the study of word origins and continue vocabulary development. Increased requirements for research and reporting in all subjects will be supported by the use of print, electronic databases, online resources, and other media.

ENGLISH ELECTIVE COURSE OFFERINGS

DIGITAL JOURNALISM 00669

Grades 7-8 Semester / Year

This class provides students an opportunity to engage in relevant writing and reporting within a variety of formats (written, video, and audio). Students learn effective methods of communication. Additionally, students understand the components of a strong interview and engage in interviews with students, staff, and members of the community.

MIDDLE SCHOOL PUBLIC SPEAKING 982804

Grades 7-8 Semester

This semester course provides students the opportunity to learn to communicate effectively and improve presentation skills while building self confidence in a variety of settings. The course will also focus on the development of leadership skills and team building. As part of this course, students will assist with the broadcasting of a morning middle school news program.

MIDDLE SCHOOL YEARBOOK 982803

Grades 7-8 Year

This year-long course provides students the opportunity to work on the production of a school yearbook. Basic fundamentals include short and long-range planning, yearbook terminology, conducting an interview, and introduction to the Yearbook Avenue website. Students will also receive instruction in journalistic writing and photography.

READERS' ROUNDTABLE 00665

Grades 7-8 Semester

This course provides opportunities for students to read and respond to multiple sources (novels, non-fiction, magazine, news, blogs, etc.). Analysis of content reading will include point of view, propaganda, authentic sources, and censorship.

WRITERS' ROUNDTABLE 00664

Grades 7-8 Semester

This elective course introduces students to models of writing and emphasizes a variety of types of writing, including expository, narrative, and persuasive. Students in this course may produce school publications.

HIGH SCHOOL COURSE OFFERINGS

ENGLISH 9 1130

Grade 9 1 Credit

This course is designed to develop students' critical and analytical language skills. Students will be introduced to significant literary texts and extensive nonfiction. Knowledge of the impact that informative and persuasive techniques in media messages make on public opinion will be introduced. Writing will encompass narrative, expository, and persuasive forms for a variety of purposes and audiences. Students will analyze their own writing and set goals to improve their grammar, usage, mechanics, and/or organizational skills. Students will continue the development of vocabulary with attention to connotations, idioms, and allusions.

ADVANCED ENGLISH 9 11301

Grade 9 1 Weighted Credit

This course is designed to develop students' critical and analytical language skills. Students will be introduced to significant literary texts and extensive nonfiction. Students will be provided multiple opportunities to develop higher-level analytical and critical thinking skills through close reading, commentary, and literary critique. Writing will encompass narrative, expository, and persuasive forms with attention to audience and purpose. Students will analyze their own writing and set goals to improve their grammar, usage, mechanics, and/or organizational skills. Increased requirements for critical reading, thinking, writing, and collaboration are expected. Students will continue the development of vocabulary with attention to connotations, idioms, and allusions.

ENGLISH 10 1140

Grade 10 1 Credit

This course is designed to develop students' critical and analytical language skills. Students will read and analyze literary texts from a variety of eras and cultures, and will be provided multiple opportunities to develop analytical and critical thinking skills through close reading, commentary, and literary critique. Elements of syntax, usage, and mechanics are integrated with reading, writing, and discussion activities. Students will analyze their own writing and set goals to improve their grammar, usage, mechanics, and/or organizational skills. Students will continue the development of vocabulary with attention to connotations, idioms, allusions, and the evolution of language.

PREREQUISITE: English 9

ADVANCED ENGLISH 10: AP SEMINAR 11402

Grade 10 | 1 Weighted Credit

An English course taught in the AP Seminar style, *Advanced English 10: AP Seminar* helps students build foundational writing, collaboration, research, and presentation skills for future success in high school, college, and their career. Students learn to synthesize information from different sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations. Students read and analyze articles, studies, and other texts. Emphasis will be on gathering and combining information from sources and viewing an issue from multiple perspectives. Written components include crafting, communicating and defending arguments based on evidence, skills necessary for success on the End of Course Reading and Writing SOLS.

PREREQUISITE: English 9

ENGLISH 11 1150

Grade 11 | 1 Credit

This course is designed to enhance students' appreciation of literature through the study of both classical and contemporary American literature. Students will identify prevalent themes and characterization present in American literature which are reflective of history and culture. Students will use a variety of nonfiction texts to draw conclusions and make inferences citing textual support. Students will write clear and accurate personal, professional, and informational correspondence and reports for research and other applications. Students will continue to analyze their own writing and set goals to improve their grammar, usage, mechanics, and/or organizational skills. Students will continue to expand and develop vocabulary.

PREREQUISITE: English 10

AP ENGLISH 11: LANGUAGE & COMPOSITION 1196

Grade 11 | 1 Weighted Credit

This introductory college-level course is designed to give students opportunities to deepen and expand their understanding of how written language functions rhetorically. As writers, students will learn how to communicate intentions and elicit readers' responses in particular situations. Students will read and analyze a broad range of challenging nonfiction and prose selections. Reading and writing activities in this course also deepen students' knowledge and control of formal conventions of written language. Students taking this course are encouraged to take the AP Exam.

PREREQUISITE: English 10

DE DUAL ENROLLMENT ENGLISH 11 DE-ENG111 DE-ENG112

Grades 11 | 1 Weighted Credit

These introductory college-level courses introduce students to critical thinking and the fundamentals of academic writing. Through the writing process, students refine topics; develop and support ideas; investigate, evaluate, and incorporate appropriate resources; edit for effective style and usage; and determine appropriate approaches for a variety of contexts, audiences, and purposes. Writing activities will include exposition, argumentation, critical essays, and research papers. Students must locate, evaluate, integrate, and document sources while also effectively editing for style and usage. Throughout the course, students continue to develop linguistic and literary competencies through the examination of a range of texts about the human experience. ****Beginning in the 2027–2028 school year, DE English 12 will transition to align with VPCC ENG 245. DE ENG 11 will be the prerequisite.**

NOTE: This course is Dual Enrolled with Virginia Peninsula Community College (VPCC). Students must meet admission and course placement requirements of the college. Requirements for admission include the completion of an application for admission to the college and demonstration of readiness for college through Grade Point Average (GPA), placement testing or eligible assessments.

PREREQUISITES: English 10

ENGLISH 12 1160

Grade 12 | 1 Credit

This course is designed to enhance students' organizational skills, audience awareness, appropriate vocabulary and grammar, and oral communication and presentation skills. Students apply historical and cultural context while reading and analyzing British literature and literature of other cultures. The course advances students' preparation for critical reading, college, and workplace writing. Increased expectations for critical thinking, academic writing, and reading are expected. Students will continue to analyze their own writing and set goals to improve their grammar, usage, mechanics, and/or organizational skills. Students will expand general and specialized vocabulary through speaking, listening, reading, and viewing.

PREREQUISITE: English 11

AP ENGLISH 12: LITERATURE & COMPOSITION 1195

Grade 12 | 1 Weighted Credit

periods. Students will practice close reading for selected texts in order to deepen their understanding of the ways writers use language and provide meaning and pleasure for their readers. As students read, they will consider the structure, style, and themes of the work to include the use of figurative language, imagery, symbolism, and tone. Students taking this course are encouraged to take the AP Exam.

PREREQUISITE: English 11

DUAL ENROLLMENT ENGLISH 12 DE-ENG111 DE-ENG112

Grade 12 | 1 Weighted Credit

These introductory college-level courses introduce students to critical thinking and the fundamentals of academic writing. Through the writing process, students refine topics; develop and support ideas; investigate, evaluate, and incorporate appropriate resources; edit for effective style and usage; and determine appropriate approaches for a variety of contexts, audiences, and purposes. Writing activities This college-level course is designed to engage students in the careful reading and critical analysis of imaginative literature. In this course, students will explore literary works from various genres and time will include exposition, argumentation, critical essays, and research papers. Students must locate, evaluate, integrate, and document sources while also effectively editing for style and usage. Throughout the course, students continue to develop linguistic and literary competencies through the examination of a range of texts about the human experience.

****Beginning in the 2027–2028 school year, DE English 12 will transition to align with VPCC ENG 245. DE ENG 11 will be the prerequisite.**

NOTE: This course is Dual Enrolled with Virginia Peninsula Community College (VPCC). Students must meet admission and course placement requirements of the college. Requirements for admission include the completion of an application for admission to the college and demonstration of readiness for college through Grade Point Average (GPA), placement testing or eligible assessment

ENGLISH ELECTIVE COURSE OFFERINGS

AP RESEARCH 11403

Grades 11-12 | 1 Weighted Credit

AP Research, the follow up course to Advanced English 10: AP Seminar, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense. Upon completion of Advanced English 10: AP Seminar and AP Research, students are eligible for the AP Capstone certificate or diploma.

PREREQUISITE: Advanced English 10: AP Seminar

CREATIVE WRITING: POETRY 11711

Grades 9 -12 | .5 Credit

This course develops poetic writing techniques. Emphasis is placed on lyric and narrative style, traditional poetic form, tone, and allusion. Advertisements may be sold for school publications.

CREATIVE WRITING: PROSE 11712

Grades 9 -12 | .5 Credit

This course extends students' prose writing techniques. Emphasis is placed on a variety of prose models that include short stories, essays, and dramatic scripts. Advertisements may be sold for school publications.

FILM STUDIES A 98406
FILM STUDIES B 98407

Grades 11-12 | .5 Credit Each

These interdisciplinary courses focus on film appreciation, creation, and history. The courses introduce the technical aspects of film and expose students to classic movies from around the world. Films are analyzed and evaluated for artistic techniques and contributions to filmmaking, as well as historical contributions and social commentary. Students further develop their written and oral communication skills, and research skills.

LITERARY MAGAZINE/MASS MEDIA I 1200

1 Credit

This course provides students with the opportunity to engage in editing, production, and publication of media such as a literary magazine. Students in this course will analyze various forms of literature to include creative works of poetry, prose, nonfiction, and multimedia representations. Students will practice skills such as building intrigue, scene development, establishing voice, creating characters, and overall reader engagement. Students will have the opportunity to work on various projects. Advertisements may be sold for publications.

PREREQUISITE: Creative Writing: Poetry or Prose

LITERARY MAGAZINE/MASS MEDIA II 12001

1 Credit

This course provides students with the opportunity to continue editing, producing, and publishing media such as a literary magazine. Students in this course will continue to hone their editing and design skills with selected literary media pieces. Students will have the opportunity to work on various projects and include creative pieces of prose, poetry, nonfiction, and multimedia within their publication. Advertisements may be sold for publications.

PREREQUISITE: Literary Magazine/Mass Media I

NEWSPAPER/MASS MEDIA I 1210

Grades 9-12 1 Credit

This course introduces students to mass media and instructs the students on various steps of reporting and news writing. Course content includes techniques for gathering and writing a story, journalism ethics and law, newspaper design and production, and business management. Advertisements may be sold for publications.

NEWSPAPER/MASS MEDIA II 1211

Grades 10-12 1 Credit

This course is designed to develop a student's ability to write in a journalistic style. Students will apply their knowledge of journalism ethics and law, newspaper design and production, and business management for the publication of a school newspaper. Students may assume leadership roles in order to budget, design, edit, and supervise novice journalists. Advertisements may be sold for publications.

PREREQUISITE: Newspaper/Mass Media I

PUBLIC SPEAKING: COMMUNICATION 13001

Grades 9-12 .5 Credit

This course highlights basic speech communication theories. Topics of focus include interviews, group dynamics, delivery techniques, and informative and persuasive presentations.

PUBLIC SPEAKING: PRESENTATION 13002

Grades 9-12 .5 Credit

This course explores a variety of communication delivery models. Emphasis is placed on PowerPoint presentations, debate, prose and poetic interpretations, and radio and television delivery.

YEARBOOK/MASS MEDIA I 1220

Grades 9-12 1 Credit

This course provides students with the opportunity to work on the production/publication of a school yearbook. During this course, students will gain skills in gathering information, writing compelling stories, adhering to legal and ethical practices, and page design. Students will employ skills such as time management, project management, and problem solving. Students will use interpersonal skills in order to promote the school yearbook. Advertisements may be sold for publications.

YEARBOOK/MASS MEDIA II 12201

Grades 10-12 1 Credit

This course continues the focus on the production/publication of a school yearbook. Students continuing in the yearbook program hone leadership, time management, project management, and problem solving skills. Students will continue to employ interpersonal skills in order to promote the school yearbook. Students may assume leadership roles based on performance. Advertisements may be sold for publications.

PREREQUISITE: Yearbook/Mass Media

FINE ARTS

Fine Arts education is an integral part of the total instructional program. Knowledge and skills that students acquire through instruction in the fine arts include the abilities to think critically, solve problems creatively, make informed judgments, work cooperatively within groups, appreciate different cultures, and imagine and create. All courses listed within this section satisfy the Fine Arts credit towards graduation requirements

Some Fine Arts courses are performance-based. Students may be required to participate in after-school rehearsals and evening performances to reinforce and assess learning in the classroom.

As graduation requirements vary based on graduation year and diploma type, please refer to page 3 for additional information

Art

MIDDLE SCHOOL COURSE OFFERINGS

EXPLORATORY ART 6 — 9103

Grade 6 — Quarter

This course contributes to the students' development of an aesthetic appreciation of the world around them through exploratory experiences in a variety of media including drawing, painting, and crafts.

INTRODUCTION TO ART — 9105

Grades 7-8 — Semester

This course is designed to stimulate creativity and personal development through the exploration of a wide range of media including painting, drawing, and crafts.

DRAWING AND PAINTING — 91061

Grades 7-8 — Semester

This course is designed for students to study the principles and elements of design, and to participate in activities designed to develop skills in drawing and painting.

SCULPTURE AND CRAFTS — 91062

Grades 7-8 — Semester

This course is designed for students to study the principles and elements of design with emphasis on printmaking, sculpture, and crafts.

HIGH SCHOOL COURSE OFFERINGS

ART I: ART FOUNDATIONS — 9120

Grades 9-12 — 1 Credit

This course emphasizes the development of students' ability to recognize visual arts content, concepts, and skills to create, discuss, and understand original works of art. The course includes basic study of the components of art design and the creation of art products. Students develop understanding and appreciation for the visual arts through visual communication and production, cultural context and art history, judgment and criticism, and aesthetics. Students maintain a portfolio documenting their artistic accomplishments to take to the next level of art study.

ART II: INTERMEDIATE — 9130

Grades 10-12 — 1 Credit

This course builds upon successful completion of Art Foundations. Emphasis is on content, concepts, and skills involved in the creation of original works of art. The course includes: the study of visual communication and production; cultural context and art history; judgment and criticism; and aesthetics. Students maintain a portfolio of selected works to take to the next level of study.

PREREQUISITE: Art I

ART III: ADVANCED INTERMEDIATE — 9140

Grades 11-12 — 1 Credit

This course continues the emphasis on the development of abilities to organize and analyze visual art content and concepts, and on skills in creating works of art. The focus on art history, evaluation, and aesthetics expands to include cultural and stylistic problem solving. Students begin to develop personal direction in the production of their works of art and continue to maintain a portfolio of selected works that is carried to the next level of art study.

PREREQUISITE: Art II

ART IV: ADVANCED — 9145

Grade 12 — 1 Credit

This course reinforces competence and confidence in the skills of analysis, evaluation, and creation of works of art. The focus is a student-directed approach to art that includes: art criticism, aesthetics, refinement of

skills, art history, cultural context, and personal expressive qualities. Completed portfolios at this level give evidence of quality, concentration, and breadth of work.

PREREQUISITE: Art III

CERAMICS A 91751

Grades 9-12 .5 Credit

This course is designed for students to identify basic pottery terms, utilize tools, and practice pottery hand-building and surface treatment techniques to create unique clay objects.

CERAMICS B 91752

Grades 9-12 .5 Credit

This course extends student understanding and practice with pottery hand-building techniques. Students use a variety of surface techniques to create culturally-inspired sculpture in clay. In addition, identification and practice of wheel-throwing techniques are included.

CRAFTS: CULTURAL ARTS 91612

Grades 9-12 .5 Credit

This course is designed for students to explore the history of art forms of a variety of selected cultures and incorporate the knowledge of indigenous art forms and techniques into individual works of art. Students work with a diversity of materials, and the designs and surface embellishments of student work are intended to relate to and integrate various aspects (e.g., history, language, food, music) of the cultures being studied.

CRAFTS: DECORATIVE ARTS & DESIGN 91601

Grades 9-12 .5 Credit

This course provides the opportunity for students to examine and explore a variety of media and to develop pieces of art that are typical of work currently produced by professional artists. Art forms may include, but are not limited to: stained glass, batik, papier-mâché, woodcarving, metal embossing, tapestry, ceramics, printmaking, and weaving. Art forms may be both two-dimensional and three-dimensional.

PHOTOGRAPHY & COMMUNICATION DESIGN I 9190

Grades 10-12 1 Credit

This course provides instruction on one of the most effective communication forms with focus on digital cameras, black and white photography, and color photography. Topics include history of photography, theme, famous photographers, photo composition, photo manipulations, display, and Adobe Photoshop techniques.

PHOTOGRAPHY & COMMUNICATION DESIGN II 9191

Grades 11-12 1 Credit

This course expands instruction of the processes and design of black and white photography and/or digital photography. Topics include: artistic and practical techniques, equipment application, portfolio development, and job market awareness. Students focus on creative aspects of image manipulation and explore alternative results for digital images including, but not limited to, computer transfer and photo-xerography.

PREREQUISITE: Photography & Communication Design I

COMPUTER GRAPHIC ART 9180

Grades 10-12 1 Credit

This course offers an opportunity to manipulate appropriate computer software to create still and animated images. Activities may include the investigation of design elements and design principles in commercial and aesthetic settings.

PREREQUISITE: Art I

THREE-DIMENSIONAL (3D) DESIGN 9197

Grades 10-12 1 Credit

This course provides the opportunity for students to develop perceptual, creative, technical, and problem-solving skills in a sculptural context. Students will learn basic world histories of 3D design and become aware of contemporary ideas. Students in this course will explore and learn the basic concepts of 3D design, the technical application of a variety of tools and materials, and develop perceptual skills through analyzing and identifying three-dimensional visual components. Activities will include both additive and subtractive methods in a diverse range of media.

PREREQUISITE: Art I or any Ceramics/Crafts course

AP ART HISTORY 9151

Grades 11-12 1 Weighted Credit

This course is designed to provide the same benefits to secondary school students that are provided by an introductory college course in art history: an understanding and enjoyment of architecture, sculpture, painting, and other art forms within an historical and cultural context. Students taking this course are encouraged to take the AP Exam.

PREREQUISITE: English or Art Teacher Recomendation

AP STUDIO ART: 2D 9148

Grades 11-12 1 Weighted Credit

This course is designed for the highly motivated student who is seriously interested in the study of art. Student will develop a portfolio that shows a

fundamental competence and range of understanding in visual concerns. This portfolio will focus on the two-dimensional design issues through any two-dimensional medium, including digital art and photography. Students are encouraged to submit a portfolio to the College Board for evaluation.

PREREQUISITES: Art II or Photography II, Art Teacher Recommendation

AP STUDIO ART: 3D 9149

Grades 11-12 1 Weighted Credit

This course is designed for the highly motivated student who is seriously interested in the study of art. Student will develop a portfolio that shows a fundamental competence and range of understanding in visual concerns. This portfolio will focus on the three-dimensional design issues through any three-dimensional medium. Students are encouraged to submit a portfolio to the College Board for evaluation.

PREREQUISITES: Art I; Ceramics A and B or 3D Design, and Art Teacher Recommendation

AP STUDIO ART: DRAWING PORTFOLIO 9150

Grades 11-12 1 Weighted Credit

This course is designed for the highly motivated student who is seriously interested in the study of art. Student will develop a portfolio that shows a fundamental competence and range of understanding in visual concerns. This portfolio will address a broad interpretation of drawing issues and media, which could include painting, printmaking, mixed media, and other two-dimensional mediums. Students are encouraged to submit a portfolio to the College Board for evaluation.

PREREQUISITES: Art II and Art Teacher Recommendation

Drama

MIDDLE SCHOOL COURSE OFFERINGS

DRAMA 6 1390

Grade 6 Quarter

This course provides opportunities for students to explore various aspects of informal drama and theatre through the basic skills of expression and communication.

INTRODUCTION TO DRAMA 13901

Grades 7-8 Semester

This course provides opportunities for students to explore various aspects of drama including forensic techniques, dramatic interpretation, audience etiquette, and theatre terminology.

DRAMA PRODUCTIONS 1395

Grades 7-8 Semester

This course provides opportunities for students to explore various aspects of drama including play reading and interpretation, basic acting techniques, and theatre history. Successful completion of Introduction to Drama is preferred prior to enrollment in this course.

SIGHT, SOUND, AND SET BUILD 13905

Grades 7-8 Semester

This course allows students to explore scenic design while incorporating elements of theatrical sound and lighting. Students will engage in hands-on experiences to build, paint, and design sets for live performances, while also learning how sound and lighting enhance the theatrical experience. The goal is to foster critical thinking and collaboration, empowering students as creative contributors to the world of theater

HIGH SCHOOL COURSE OFFERINGS

DRAMA IA 14101
DRAMA IB 14102

Grades 9-12 .5 Credit Each

This course is an introduction to drama with an emphasis on collaboration, basic acting techniques, theatre history, play reading, and interpretation.

NOTE: A full year fulfills the fine arts requirement.

DRAMA IIA 14201
DRAMA IIB 14202

Grades 10-12 .5 Credit Each

This course continues the study of drama with an emphasis on acting techniques, technical theatre (stagecraft), staff management, and one-act play production.

NOTE: A full year fulfills the fine arts requirement.

PREREQUISITE: Two semesters of Drama I

DRAMA IIIA 14301
DRAMA IIIB 14302

Grades 11-12 .5 Credit Each

This course expands the study of drama with an emphasis on advanced acting techniques, directing, theatre management, and one-act play production.

NOTE: A full year fulfills the fine arts requirement.

Prerequisite: Two semesters of Drama II

DRAMA IVA 14401
DRAMA IVB 14402

Grade 12 .5 Credit Each

In this course, students work intensely on a major project of their choosing in the field of drama. Students submit project proposals in areas that may include dramaturgy, writing or directing. Once the proposal is accepted, students meet with the teacher to establish the criteria for each step of the project from initial tasks through the evaluation process.

NOTE: A full year fulfills the fine arts requirement.

PREREQUISITE: Two semesters of Drama III

TECHNICAL THEATRE IA 14351
TECHNICAL THEATRE IB 14352

Grades 9-12 .5 Credit Each

Through this course, students explore the technical elements of theatre production. Students gain practical experience with set construction, scenery painting, lighting, sound, props, costumes, makeup, and stage management. Safety issues and practices as well as proper care and storage of equipment are emphasized. Students provide technical support for a variety of events. Some after school participation is necessary. These courses may be repeated for credit with approval from instructor.

TECHNICAL THEATRE IIA 14361
TECHNICAL THEATRE IIB 14362

Grades 10-12 .5 Credit Each

Students continue to explore the technical elements of theatre production. Students gain practical experience with set construction, scenery painting, lighting, sound, props, costumes, makeup, and stage management. Safety issues and practices as well as proper care and storage of equipment are emphasized. Students provide technical support for a variety of events. Some after school participation is necessary.

PREREQUISITE: Two semesters of Technical Theater

Music

MIDDLE SCHOOL COURSE OFFERINGS

VOCAL

INTRODUCTION TO CHORUS 9269

Grade 6 Semester

Introduction to Chorus is a mixed group of male and female vocalists. Emphasis is placed on the development of singing skills, music theory, and a repertoire of musical selections that can be utilized for school and community performances.

BEGINNING CHORUS 6 92692

Grade 6 Year

This performance-based class helps students develop beginning vocal techniques, part-signing, music reading, and sight-reading. Public performances may serve as a culmination of specific instructional goals. Students will be required to attend and/or participate in performances outside the school day to support, extend, and assess learning in the classroom.

INTRODUCTION TO CHORUS 9269

Grade 6 Semester

Introduction to Chorus is a mixed group of male and female vocalists. Emphasis is placed on the development of singing skills, music theory, and a repertoire of musical selections that can be utilized for school and community performances.

This performance-based class helps students develop beginning vocal techniques, part-signing, music reading, and sight-reading. Public performances may serve as a culmination of specific instructional goals. Students will be required to attend and/or participate in performances outside the school day to support, extend, and assess learning in the classroom.

ADVANCED CHORUS 92708

Grades 7-8 Year

Advanced Chorus is a mixed group of male and female vocalists. Emphasis is placed on the development of singing skills, music theory, and a repertoire of musical selections that can be utilized for school and community performances.

MUSICAL STAGE PRODUCTIONS 9270

Grades 7-8 Semester

This course offers students an opportunity to study and to perform musical stage performances.

INSTRUMENTAL

BEGINNING BAND 6 9230

Grade 6 Year

This course provides a program of instruction for beginning students on woodwind, brass, or percussion instruments.

BEGINNING BAND 9232

Grades 7-8 Year

This course provides a program of instruction for first-year band students on woodwind, brass, or percussion instruments.

INTERMEDIATE BAND 9233

Grades 7-8 Year

This course provides the opportunity for students to continue to develop their instrumental music skills.

PREREQUISITE: Audition or one year of instrumental music experience

ADVANCED BAND 9234

Grades 7-8 Year

This course provides the opportunity for students to refine their instrumental music skills.

PREREQUISITE: Audition or one year of instrumental music experience

MUSIC TECHNOLOGY I 5124

Grades 7-8 Semester

Students engage in the exploration of music production through writing, arranging, tracking, mixing and mastering music using technology. The course also includes lessons on the history of the music industry and the business behind it.

MUSIC TECHNOLOGY II 5125

Grades 7-8 Semester

Students continue exploration in the second music technology focusing on music form, composition, production, podcasting, score writing, and genre styles.

HIGH SCHOOL COURSE OFFERING

VOCAL

CHORUS I 9260

Grades 9-12 1 Credit

This is a course for students wishing to develop sight-reading skills, vocal production, and rhythmic concepts through the study of music fundamentals and the performance of appealing music

CHORUS II 9289

Grades 10-12 1 Credit

This course is a performing mixed choir of ambitious, musically advanced vocalists. Students continue to be exposed to sight-reading skills, vocal production, and rhythmic concepts through the study of music fundamentals and the performance of appealing music.

PREREQUISITES: Chorus I or Small Vocal Ensemble I and Audition

SMALL VOCAL ENSEMBLE I 9280

Grades 9-12 1 Credit

This course is designed to develop vocalists for performance in a variety of ensemble groups (e.g., Treble Choir, TBB (Tenor, Bari, Bass) Choir, Jazz Choir, Show Choir, Madrigal Singers, quartets, etc.) Theory, sight-reading, musical techniques, and various musical styles are emphasized. Students selecting this course should have previous choral experience.

PREREQUISITE: Audition

SMALL VOCAL ENSEMBLE II 92801

Grades 10-12 1 Credit

This course continues to develop vocalists for performance in a variety of ensemble groups (e.g., Treble Choir, TBB (Tenor, Bari, Bass) Choir, Jazz Choir, Show Choir, Madrigal Singers, quartets, etc.) Theory, sight-reading, musical techniques, and various musical styles are emphasized. Students selecting this course should have previous choral experience.

PREREQUISITES: Small Vocal Ensemble I or Chorus I and Audition

INSTRUMENTAL

CONCERT BAND I 9237

Grades 9-12 1 Credit

This course offers the opportunity for students to learn the basic fundamentals of tone production, rhythmic concepts, proper articulation, and the performance of medium level band literature. Participation in marching band, band camp, and/or other related band activities is a requirement of this course.

PREREQUISITE: Audition

CONCERT BAND II 9238

Grades 10-12 1 Credit

This course continues the refinement of skills learned in Concert Band I. Students apply the basic fundamentals of tone production, rhythmic concepts, proper articulation, and the performance of medium level band literature. Participation in marching band, band camp, and/or other related band activities is a requirement of this course.

PREREQUISITES: Concert Band I and Audition

SYMPHONIC BAND I 9239

Grades 9-12 1 Credit

In this course, advanced instruction in individual and group performance is stressed. The Symphonic Band represents the school in concerts, festivals, parades, football games, and other school-related activities. Participation in marching band, band camp, and/or other related band activities is a requirement of this course.

PREREQUISITE: Audition

SYMPHONIC BAND II 9240

Grades 10-12 1 Credit

In this course, advanced instruction in individual and group performance is expanded. The Symphonic Band represents the school in concerts, festivals, parades, football games, and other school-related activities. Participation in marching band, band camp, and/or other related band activities is a requirement of this course.

PREREQUISITES: Symphonic Band I and Audition

WIND ENSEMBLE I 9241

Grades 9-12 1 Credit

Wind Ensemble is the most advanced band ensemble. The course is designed to provide students with the opportunity to perform technically and musically challenging repertoire and to develop their musical skills and artistry at the highest level. This course expands upon the knowledge gained in Concert Band and Symphonic Band. Participation in marching band, band camp, and/or other related band activities is a requirement of this course.

PREREQUISITE: Audition

WIND ENSEMBLE II 9242

Grades 10-12 1 Credit

Wind Ensemble is the most advanced band ensemble. The course is designed to provide students with the opportunity to perform technically and musically challenging repertoire and to develop their musical skills and artistry at the highest level. This course expands upon the knowledge gained in Concert Band and Symphonic Band. Participation in marching band,

band camp, and/or other related band activities is a requirement of this course.

PREREQUISITES: Wind Ensemble I and Audition

PERCUSSION I 92343

Grades 9-12 1 Credit

This course offers small group instruction in the percussion family. Participation in marching band, band camp, and/or other related band activities is a requirement of this course.

PREREQUISITE: Audition

PERCUSSION II 92344

Grades 10-12 1 Credit

This course continues small group instruction in the percussion family. Participation in marching band, band camp, and/or other related band activities is a requirement of this course.

PREREQUISITES: Percussion I and Audition

JAZZ ENSEMBLE I 9250

Grades 9-12 1 Credit

This performing organization represents the school in concerts, festivals, and dances in the contemporary jazz idiom. This course may be taken for credit concurrently with Symphonic Band. Participation in marching band, band camp, and/or other related band activities is a requirement of this course.

PREREQUISITE: Audition

JAZZ ENSEMBLE II 92501

Grades 10-12 1 Credit

Students continue to represent the school in concerts, festivals, and dances in the contemporary jazz idiom. This course may be taken concurrently with Symphonic Band. Participation in marching band, band camp, and/or other related band activities is a requirement of this course.

PREREQUISITES: Jazz Ensemble I and Audition

BEGINNING GUITAR-ACOUSTIC 9245

Grades 9-12 1 Credit

This course includes the basics of acoustic guitar playing and maintenance as well as the history of the instrument. Students will gain the skills needed to play in solo and ensemble settings. Students are responsible for providing their own acoustic guitar.

GUITAR II 9247

Grades 10-12 1 Elective Credit

Guitar II is a continuation of the Beginning Guitar-Acoustic curriculum. Students continue to learn new guitar skills including complex chords, melodic, and fingerstyle playing techniques. Guitar ensemble as well as accompaniment techniques are explored in depth to allow the student to become a proficient guitarist for real-world applications. Outcomes of this class include skills for life-long applications and advanced social and cultural awareness.

NOTE: Students provide their own guitar and textbook. Contact instructor for more information.

PREREQUISITE: Beginning Guitar-Acoustic or teacher recommendation

MUSIC APPRECIATION A 92221
MUSIC APPRECIATION B 92222

Grades 9-12 .5 Credit Each

These courses offer a study of the historical, social and cultural aspects of music, as well as the mechanics and fundamentals of music theory as needed for music reading. The scientific principles of acoustics and organology are also introduced along with certain aspects of the music industry.

MUSIC THEORY 92251
92252

Grades 9-12 1 Credit

This course concentrates on development of a working knowledge of music fundamentals as applied to arranging and composition.

AP MUSIC THEORY 9226

Grades 11-12 1 Weighted Credit

This course is designed to explore aspects of melody, harmony, rhythm, musical analysis, history, and style to develop a student's ability to recognize, describe and apply the concepts of music that are presented in a score. Students taking this course should have basic performance skills in voice or with an instrument and the ability to read and write musical notation. Students taking this course are encouraged to take the AP Exam.

PREREQUISITES: Band II or Chorus II and Band or Chorus Teacher Recommendation

GENERAL TOPICS

MIDDLE SCHOOL COURSE OFFERINGS

SET FOR SUCCESS 00668

Grade 6 | Quarter

In this exploratory wheel course, students will incorporate their own learning styles to help them develop effective study techniques, time management, communication skills, and academic work habits.

ACADEMIC SEMINAR 9828 98286 98287 98288

Grades 6-8 | Semester

These courses provide students with accelerated instruction in mathematics and/or reading comprehension components. Within these courses, student data will be utilized to determine students' entry points and accelerate them toward grade level standards. While reading comprehension of grade level content is the ultimate goal in these courses, scaffolds in vocabulary and fluency instruction will be provided. Likewise, foundational math skills will be taught through grade level instruction.

CAREER INVESTIGATIONS 9068 9069

Grade 6 | Quarter
Grades 7-8 | Semester

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

ADVANCED COURSE EXPERIENCE 982808

Grades 7-8 | Semester

This course is designed to motivate and prepare students for advanced course work in high school. Students are exposed to rigorous, advanced-level course work through project based learning experiences. The course goal is to develop foundational skills, key strategies, and content knowledge that students need to be successful in challenging courses such as AP, Dual Enrollment and International Baccalaureate courses.

CRIMINAL JUSTICE 9826

Grades 7-8 | Semester

This course will provide hands-on learning in criminal investigation and legal proceedings. Students will apply scientific investigation and technology to analyze legal cases.

INTRODUCTION TO PROGRAMMING & GAME DESIGN 982807

Grades 7-8 | Semester

This blended-learning course provides an introduction to programming and the theory and practice of game design. Students will focus on elements of programming and design to create interactive games to include robotics. This course offers students opportunities to expand technology skills through analysis and development of games, graphics, audio, animation, and robotics.

HIGH SCHOOL COURSE OFFERINGS

ACADEMIC TUTORIAL 982856 982857

Grades 9-12 | .5 Credit Each

This course assesses specific academic needs in the areas of reading, writing and mathematics, and provides structured remediation within the school day. Content is designed to increase the academic success of the students in their regular high school course work. In addition to basic academic fundamentals, this course also includes note-taking strategies, reading/writing across the curriculum, organizational skills, test-taking strategies, time management, and career preparation.

COLLEGE & CAREER PREPARATION 98262

Grades 9-12 | .5 Credit

This course is designed to provide students with experiences to help define and shape their post-secondary plans. Students will learn how to navigate the pathways that connect education and employment through presentations facilitated by community stakeholders. Topics will include, but are not limited to: the college application process, how to apply for scholarships, marketing oneself for employment, analyzing strengths and interest to determine the best career fit, and learn the necessary soft skills to be successful in one's chosen pathway. Students will have

an opportunity to visit local colleges, businesses, and participate in cultural field trips.

DUAL ENROLLMENT
COLLEGE SUCCESS SKILLS — DE-SDV100

Grades 10-12

This introductory course is designed to help students successfully transition into the college experience. Through an exploration of college policies, procedures, and available academic programs, students will build a strong foundation for their college journey. Emphasizing essential skills for success, the course covers effective study techniques, career and academic planning, and introduces a variety of valuable campus resources, empowering students to thrive both academically and personally.

NOTE: This course is only offered to students participating in the VPCC Associates Degree path. This course is Dual Enrolled with Virginia Peninsula Community College (VPCC). Students must meet admission and course placement requirements of the college. Requirements for admission include the completion of an application for admission to the college and demonstration of readiness for college through Grade Point Average (GPA), placement testing or eligible assessments.

LEADERSHIP SEMINAR A — 982891
LEADERSHIP SEMINAR B — 982892

Grades 10-12 — .5 Credit Each

This course offers a study of theories of leadership with an emphasis on four strands: developing knowledge of self and others, defining leadership, developing leadership skills and practices, and practicing leadership through service projects.

SAT PREPARATION — 98261

Grades 10-12 — (Pass/Fail) .5 Credit

This course provides preparation for the reading, writing, and mathematics sections of the Scholastic Aptitude Test (SAT).

APPLIED RESEARCH PROJECTS — 98289

Grades 11-12 — 1 Credit

Applied Research Projects represent a capstone experience for students at York River Academy in a business or technology area of the students choosing. Students will propose an area of independent study that is not currently taught or an extension of previous YRA coursework, design the project they will complete to demonstrate new learning and present to a staff member for review and mentorship. This project will then be monitored with quarterly mentor meetings and a presentation to faculty and peers during the 4th Quarter of the assigned semester.

CAREER INTERNSHIP — 982610

Grades 11-12 — 1 Credit

Students apply academic and technical knowledge and skills through paid work experiences. The school and the employer plan, coordinate, and supervise on-the-job training activities to align with the student's career field of interest. Students will be required to work a minimum of 280 hours during the school year and complete all required documentation and reflection activities.

NOTE: Students must complete an application from the employing agency.

CAREER MENTORSHIP — 982893

Grades 11-12 — 1 Credit

This course is a non-paid, work-based experience that allows students to apply knowledge, develop skills, and see a strong work ethic in practice. Students log 140 hours in a sponsoring work site and present a final project to earn one credit.

PREREQUISITE: Application

CREDIT FOR WORK EXPERIENCE — 982620

Grades 11-12 — .5 Credit

This is a pass/fail course offering students working at an after-school and/or summer job an opportunity to earn an additional .5 elective credit for every 70 hours worked. This is not to exceed a total of two (2) credits or 280 hours during their high school experience. Students must submit required documentation consisting of a Supervisor Evaluation Form indicating successful demonstration of Workplace Readiness Skills, as well as submission of a log of hours worked validated by the employer.

STUDENT ASSISTANCE EXPERIENCE — 98265 / 98266

Grades 11-12 — No Credit

This course offers students the opportunity to expand their work experience and knowledge by assisting in areas that may include the computer lab, library, science lab, school offices, or certain classes.

PREREQUISITE: Application and recommendation of staff member being assisted

SERVICE LEARNING 22104

Grade 11-12 1 Credit

Service learning goes beyond students participating in community service. Service learning enables students to learn and apply academic, social, and personal skills to improve their community. Students perform 140 hours of service as they identify a community need and plan, implement, and evaluate a solution. Service learning provides opportunities for students to apply their knowledge and skills within the setting of certain non-profit agencies and organizations in York County and the greater Hampton Roads area.

PREREQUISITE: Application

HEALTH & PHYSICAL EDUCATION

Health and Physical Education support students in developing the knowledge, habits, and confidence needed to lead healthy, active lives. These courses encourage personal responsibility, physical fitness, and emotional well-being, helping students make informed choices that benefit both themselves and their communities.

For safety, students will need to wear appropriate clothing and shoes suitable for activity. All clothing must meet the school's dress code requirements.

As graduation requirements vary based on graduation year and diploma type, please refer to page 3 for additional information.

MIDDLE SCHOOL COURSE OFFERINGS

PHYSICAL EDUCATION/ LIFETIME FITNESS 6 — 7111

Grade 6 — Year

This course incorporates activities designed to develop lifetime physical fitness and conditioning through participation in selected team and individual activities.

PHYSICAL EDUCATION/ LIFETIME FITNESS 7 — 7121

Grade 7 — Year

This course incorporates activities designed to develop lifetime physical fitness and conditioning through participation in selected team and individual activities. Safety issues related to sports and recreation are included.

PHYSICAL EDUCATION/ LIFETIME FITNESS 8 — 7210

Grade 8 — Year

This course incorporates activities designed to develop lifetime physical fitness and conditioning through participation in selected team and individual activities. Safety issues related to sports and recreation are included.

HIGH SCHOOL COURSE OFFERINGS

HEALTH & PHYSICAL EDUCATION — 7300

Grade 9 — 1 Credit

In this course, health units include the study of disease, consumer and environmental health issues, and Family Life Education. In addition, students will be trained in emergency first aid, cardiopulmonary resuscitation, and the use of automated external defibrillators. Physical education units include instruction in physical fitness and conditioning, individual and dual sports, and team sports.

NAVY JROTC I (NJROTC) — 79132, 79133

Grade 9-10 — 1 Credit

This course is a study of basic naval orientation, citizenship and government, leadership skills, and wellness, fitness, and first aid. The curriculum includes two areas of study: (1) the Cadet Field Manual with an introduction to military drill, uniforms, military customs and courtesies, and (2) the Introduction to NJROTC with the history of JROTC, citizenship, and laws-authority-responsibility. Cadets will study leadership skills, behavioral sciences, motivation and relationships. Cadets will have a balanced program of instruction in wellness including building health skills through exercise, nutrition, and lifetime planning.

NOTE: Enrollment in this course fulfills the PE 9 and PE 10 requirements for NJROTC students.

HEALTH 9 (NJROTC) — 7310

Grade 9 — .5 Credit

In this course, health units include the study of disease, consumer and environmental health issues, and Family Life Education. In addition, students will be trained in emergency first aid, cardiopulmonary resuscitation, and the use of automated external defibrillators.

NOTE: This course is only available to students who are participating in JROTC for PE credit.

HEALTH, DRIVER EDUCATION & PHYSICAL EDUCATION — 7405

Grade 10 — 1 Credit

This course is divided among classroom health, classroom driver education, and physical education. The health curriculum includes Family Life Education. The physical education curriculum includes the study of

physical fitness, individual and dual sports, and team sports. Driver education focuses on classroom instruction.

Driver Education Requirement**:** In accordance with Virginia Senate Bill 78 (2022), students must attend the 90-Minute Partners for Safe Teen Driving Student/Parent Presentation. The presentation is held in the evening during the academic year and students may choose from four scheduled dates to fulfill this requirement.

PREREQUISITE: Health & PE 9 or permission of the principal

HEALTH 10 & DRIVER EDUCATION (NJROTC) 7410

Grade 10 .5 Credit

This course is divided among classroom health, classroom driver education, and physical education. The health curriculum includes Family Life Education.

Driver Education Requirement**:** In accordance with Virginia Senate Bill 78 (2022), students must attend the 90-Minute Partners for Safe Teen Driving Student/Parent Presentation. The presentation is held in the evening during the academic year and students may choose from four scheduled dates to fulfill this requirement.

NOTE: This course is only available to students who are participating in JROTC for PE credit.

PHYSICAL EDUCATION 11A 75101
PHYSICAL EDUCATION 11B 75102

Grade 11 .5 Credit Each

The content for this course, based on the Standards of Learning, is determined by classroom instructors as appropriate to the skill level of the students.

PHYSICAL EDUCATION 12A 76101
PHYSICAL EDUCATION 12B 76102

Grade 12 .5 Credit Each

The content for this course, based on the Standards of Learning, is determined by classroom instructors as appropriate to the skill level of the students.

HISTORY & SOCIAL SCIENCE

History and Social Science help students make sense of the world by exploring how people, places, and ideas have shaped society over time. These courses encourage students to think critically about the past and present, while developing a deeper understanding of their roles as informed and responsible citizens. Through thoughtful discussion and inquiry, students learn to appreciate diverse perspectives and the complexity of human experiences.

As graduation requirements vary based on graduation year and diploma type, please refer to page 3 for additional information.

History & Social Science Course Offerings & Suggested Sequences

US History to 1865

⬇

US History to 1865 to Present

⬇

Civics & Economics

⬇

World History I,
World Geography, or
***AP Human Geography**

⬇

World History II,
***AP European History, or**
***AP World History**

⬇

VA & US History,
***AP US History or**
***DE VA & US History**

⬇

VA & US Government
***AP US Government & Politics**

History & Social Science Elective Course Offerings (Grades 9-12)

- African American History
- Psychology
- Sociology: Aspects & Tools of Culture
- Sociology: Institutions & Issues
- *AP African American Studies
- *AP Comparative Government & Politics
- *AP Macroeconomics
- *AP Microeconomics
- *AP Psychology

*** Weighted Course**

MIDDLE SCHOOL COURSE OFFERINGS

UNITED STATES HISTORY TO 1865 — 2353

Grade 6 — Year

Students use skills in historical and geographical analysis to explore how early cultures developed in North America from pre-Columbian times until 1865.

UNITED STATES HISTORY 1865 TO PRESENT — 2354

Grade 7 — Year

Students will continue to use skills for historical and geographical analysis as they examine American history since 1865. Emphasis is placed on the fundamental concepts in civics, economics, and geography.

CIVICS AND ECONOMICS — 2357

Grade 8 — Year

Students study the roles of citizens in the political, governmental, and economic systems in the United States. Emphasis is placed on the understanding of public and personal economic and financial decisions.

HIGH SCHOOL COURSE OFFERINGS

WORLD GEOGRAPHY — 2210

Grades 9-10 — 1 Credit

This course introduces students to a study of the world's population, cultural characteristics, landforms and climate, economic development, and migration and settlement patterns. Using geographic resources, students will employ inquiry, research, and technological skills to ask and answer geographic questions and to apply geographic concepts and skills to their daily lives.

AP HUMAN GEOGRAPHY — 2212

Grades 9-12 — 1 Weighted Credit

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students will study diverse peoples and areas organized around concepts that include location, place, scale, pattern, spatial organization, and regionalization. They will also learn about the methods and tools geographers use in their science and practice. Students taking this course are encouraged to take the AP Exam.

NOTE: This course may be taken in place of World History I, or as an elective credit after taking World History I.

WORLD HISTORY I — 2215

Grade 9 — 1 Credit

This course offers an historical and cultural study of world history and geography that enables students to explore the development of peoples, places, and patterns of life from ancient times until 1500 A.D. Emphasis is placed on geographic influences, with increased attention to the development and evolution of the nation-state. Attention is also focused on the connections between people and events prior to 1500 A.D. and those of contemporary times. source evidence using. Students have the opportunity to work with a variety of artifacts as well as primary and secondary sources.

WORLD HISTORY II — 2216

Grade 10 — 1 Credit

This course offers an historical and cultural study of world history and geography to explore the development of peoples, places, and patterns of life from 1500 A.D. to the present. Emphasis is placed on geographic influences, with increased attention to the development and evolution of the nation-state. Attention is also focused on the connections between people and events of contemporary times. Students have the opportunity to work with a variety of artifacts as well as primary and secondary sources to uncover and understand specific historic events and issues.

AP WORLD HISTORY — 2380

Grades 10-12 — 1 Weighted Credit

The purpose of the AP World History course is to develop greater understanding of the evolution of global processes and contacts in interaction with different types of human societies. Students taking this course are encouraged to take the AP exam.

AP EUROPEAN HISTORY — 2399

Grades 10-12 — 1 Weighted Credit

AP European History is an introductory college-level European history course. Students cultivate their understanding of European history through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like interaction of Europe and the world; economic and commercial developments; cultural and intellectual developments; states and other institutions of power; social organization and development; national and

European identity; and technological and scientific innovation.

VIRGINIA & UNITED STATES HISTORY 2360

Grade 11 — 1 Credit

This course provides a chronological study based upon an identification and analysis of the events, problems, issues, movements, and personalities that have affected the development of the United States from the Age of Exploration to the present. The student focuses on political, economic, cultural, and social history. Virginia's role in the history of the United States is emphasized.

AP UNITED STATES HISTORY 2319

Grade 11 — 1 Weighted Credit

AP U.S. History is an introductory college-level U.S. history course. Students cultivate their understanding of U.S. history from c. 1491 A.D. to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures.

DE DUAL ENROLLMENT VIRGINIA & UNITED STATES HISTORY DE-HIS 121 DE-HIS 122

Grade 11 — 1 Weighted Credit

This college level course surveys history of Virginia and the United States from its origins to the present. Students will learn about the important political, economic, social, intellectual, cultural, and religious changes that shaped the development of Virginia and the United States.

NOTE: This course is Dual Enrolled with Virginia Peninsula Community College (VPCC). Students must meet admission and course placement requirements of the college. Requirements for admission include the completion of an application for admission to the college and demonstration of readiness for college through Grade Point Average (GPA), placement testing or eligible assessments.

VIRGINIA & UNITED STATES GOVERNMENT 2440

Grade 12 — 1 Credit

This course is designed to ensure that students have an understanding of the origins and workings of the Virginia and United States political systems. The objectives require that students have knowledge of the Virginia and United States governments; the process of policy-making, with emphasis on economics, foreign affairs, and civil rights issues; and the impact of the general public, political parties, interest groups, and the media on policy decisions. United States political and economic systems are compared to those of other nations, with emphasis on the relationships between economic and political freedoms. Economic content covers the United States market system, supply and demand, and the role of the government in the economy.

AP UNITED STATES GOVERNMENT & POLITICS 2445

Grade 12 — 1 Weighted Credit

AP U.S. Government and Politics is an introductory college-level course in U.S. government and politics. Students cultivate their understanding of U.S. government and politics through analysis of data and text-based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis

HISTORY & SOCIAL SCIENCE ELECTIVE COURSE OFFERINGS

AFRICAN AMERICAN HISTORY 2371

Grades 10-12 — 1 Credit

The purpose of the African American History course is to acknowledge and amplify the resistance, resilience, innovation, and sacrifices of African Americans and their continued contributions to American society. The course provides the opportunity for students to make connections between African American history and its relevance in contemporary communities. Students enrolled in this course will engage in critical thinking and academic discourse about race and other systems of differences that shape individual and group interactions, American identity, and culture. Students will complete a capstone project that requires them to conduct independent research on a question or problem of their choosing and to demonstrate a deeper understanding of African American history.

AP AFRICAN AMERICAN STUDIES 2372

Grades 10-12 — 1 Weighted Credit

AP African American Studies is an interdisciplinary course that examines the diversity of African American experiences through direct encounters with varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment. Students will analyze perspectives in texts, data, and visual sources to develop well-supported arguments applied to real-world problems. This course foregrounds a study of the diversity of Black communities in the United States within the broader context of Africa and

the African diaspora. This course prepares students for the AP Exam and for further study in business, political science and history. Students in this course are encouraged to take the AP Exam.

PSYCHOLOGY 2900

Grades 10-12 1 Credit

This course includes a survey of the life and works of major contributors to psychology, an introduction to the various factors that influence behavior, and a description and explanation of changes in an individual's behavior and personality.

AP PSYCHOLOGY 2902

Grades 10-12 1 Weighted Credit

This course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with major units of study, including biological bases of behavior, cognition, development, learning, social psychology, personality, and mental and physical health. Throughout the course, students apply psychological concepts and employ psychological research methods and data interpretation to evaluate claims, consider evidence, and effectively communicate ideas.

SOCIOLOGY: ASPECTS & TOOLS OF CULTURE 25001

Grades 10-12 .5 Credit

This course provides a study of numerous sociological issues including social change, crime, aging, the environment, cities, and terrorism. Emphasis is placed on the methods society uses to control individual social groups and the total population. In addition, students will analyze the methods society uses in working with individuals, social groups, and the total population with an emphasis on the role of the media as a pacesetter for contemporary American life.

SOCIOLOGY: INSTITUTIONS & ISSUES 25002

Grades 10-12 .5 Credit

This course provides an analysis of the methods society uses in working with individuals, social groups, and the total population with an emphasis on the role of the media as a pacesetter for contemporary American life.

AP COMPARATIVE GOVERNMENT & POLITICS V2450

Grades 11-12 1 Weighted Credit

AP Comparative Government & Politics introduces students to the rich diversity of political life outside the United States. The course uses a comparative approach to examine the political structures, policies, and political, economic, and social challenges of six selected countries: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Students compare the effectiveness of approaches to many global issues by examining how different governments solve similar problems. They also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. Students in this course are encouraged to take the AP Exam.

NOTE: This course does NOT substitute for U.S. Government under the Virginia Standards of Learning.

PREREQUISITE: 2 years of a high school credit-bearing history/social studies course

AP MACROECONOMICS V2803

Grades 11-12 .5 Weighted Credit

AP Macroeconomics is a college-level course that focuses on how the whole economy behaves, including regional, national, and global markets. Much of what students will study in AP Macroeconomics is the theory of economics and the effects of economic decisions made in these markets. This course prepares students for the AP Exam and for further study in business, political science and history. Students in this course are encouraged to take the AP Exam.

AP MICROECONOMICS V2802

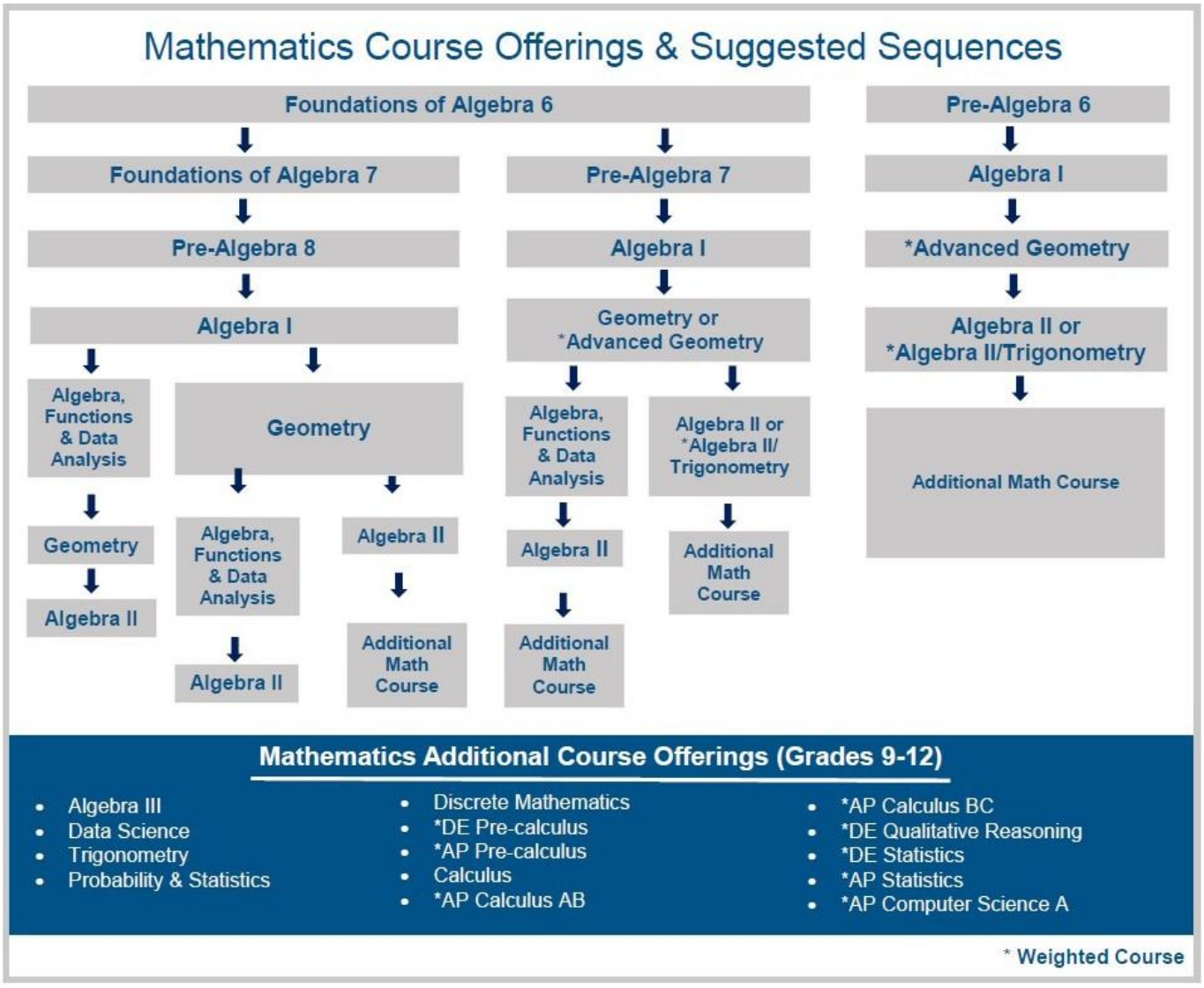
Grades 11-12 .5 Weighted Credit

AP Microeconomics is a fast-paced, college-level course that focuses on the decision making of individuals, households, firms, and the government. Students will study a variety of economic theories and analyze their practical applications in the real world. Course topics include the product market (including forces of supply and demand), factor/resource markets (including labor and capital), and competition/market structures. This course prepares students for the AP Exam and for further study in business, history, and political science. Students taking this course are encouraged to take the AP Exam.

MATHEMATICS

Mathematics empowers students to think critically, reason logically, and solve problems with confidence. These courses provide a strong foundation for academic success and prepare students for real-world challenges. As students engage with increasingly complex concepts, they develop the skills necessary to approach tasks thoughtfully and persevere through problem-solving processes

- *Placement of students in specific middle school and high school math courses is based on factors which may include one or more of the following: previous math performance, math SOL test performance, standardized test scores, and teacher/administrator recommendation.*
- *Any two math courses for which prerequisites have been met may be taken concurrently only with teacher/administrator approval.*
- *As graduation requirements vary based on graduation year and diploma type, please refer to page 3 for additional information*



MIDDLE SCHOOL COURSE OFFERINGS

FOUNDATIONS OF ALGEBRA 6 — 3110

Grade 6 — Year

This course is designed to support the transition from elementary Standards of Learning to the study of Algebra with an emphasis in strengthening students' skills in problem solving and mathematical concepts. This course addresses the sixth grade math Standards of Learning. Students will be required to utilize the mathematical process goals of communication, collaboration, problem solving, reasoning, and representations. Students completing this course are required to take the sixth grade SOL test.

PRE-ALGEBRA 6 — 31106

Grade 6 — Year

As a preparatory course to Algebra I (high school credit-bearing course) this class will move at an accelerated pace to cover the math Standards of Learning in grades six through eight. An emphasis is placed on applying skills to abstract concepts through the discovery of algebraic relationships. Students will be required to utilize the mathematical process goals of communication, collaboration, problem solving, reasoning, and representations in the exploration of number sense, computation, estimation, measurement, geometry, probability, statistics, patterns, functions, and algebra. Students completing the course are required to take the eighth grade SOL test.

NOTE: Placement will be determined using state assessment data and teacher recommendations. Students who score in the upper quartile on the state spring mathematics SOL assessment will be automatically placed into the course. Students may also be recommended by their teacher based on overall classroom performance, an A/B average in their current math course by the end of the third quarter, demonstrated mastery of key concepts on division assessments, a comprehensive understanding of mathematical concepts, and/or the ability to apply mathematical reasoning and problem-solving skills.

FOUNDATIONS OF ALGEBRA 7 — 3111

Grade 7 — Year

This course continues the development of algebraic knowledge from Foundations of Algebra 6. The course addresses the seventh grade math Standards of Learning. Students will expand their understanding of Algebra concepts through the mathematical process goals of communication, collaboration, problem solving, reasoning, and representations. Students completing this course are required to take the seventh grade SOL test.

PRE-ALGEBRA 7 — 31117

Grade 7 — Year

This course supports the transition from Foundations of Algebra 6 to Algebra I (high school credit-bearing course) and addresses the math Standards of Learning for grades seven and eight. Students will be required to utilize the mathematical process goals of communication, collaboration, problem solving, reasoning, and representations in the exploration of number sense, computation, estimation, measurement, geometry, probability, statistics, patterns, functions, and algebra. Students completing the course are required to take the eighth grade SOL test.

NOTE: Placement will be determined using state assessment data and teacher recommendations. Students who score in the upper quartile on the state spring mathematics SOL assessment will be automatically placed into the course. Students may also be recommended by their teacher based on overall classroom performance, an A/B average in their current math course by the end of the third quarter, demonstrated mastery of key concepts on division assessments, a comprehensive understanding of mathematical concepts, and/or the ability to apply mathematical reasoning and problem-solving skills.

PRE-ALGEBRA 8 — 3112

Grade 8 — Year

This course supports the transition from Foundations of Algebra 7 to Algebra I (high school credit-bearing course) and addresses the eighth grade math Standards of Learning. Students will be required to utilize the mathematical process goals of communication, collaboration, problem solving, reasoning, and representations in the exploration of number sense, computation, estimation, measurement, geometry, probability, statistics, patterns, functions, and algebra. Students completing the course are required to take the eighth grade SOL test.

ALGEBRA I 3130

Grades 7-8 1 Credit

This course is a study of the algebraic concepts needed to solve algebraic equations. Students use algebra as a tool for representing and solving a variety of practical problems. Tables and graphs are used to interpret algebraic expressions, equations, and inequalities, and to analyze functions. Students make connections and build relationships among algebra and arithmetic, geometry, and probability and statistics.

PREREQUISITE: Pre-Algebra 6 or Pre-Algebra 7 Recommendation from previous mathematics teacher with a suggested grade average of "A" or "B" overall for Pre-Algebra 6 or Pre-Algebra 7; a passing score on the Grade 8 mathematics SOL assessment.

ADVANCED GEOMETRY 31433

Grade 8 1 Weighted Credit

The content of this course offers a study of plane, three-dimensional, and coordinate geometry. Methods of justification of theorems include: paragraph proofs, flow charts, two-column proofs, indirect proofs, coordinate proofs, and verbal arguments. Emphasis is on two-dimensional and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. This course provides the foundation for students to pursue a sequence of advanced mathematical studies from Algebra II/Trigonometry to Mathematical Analysis to AP Calculus.

PREREQUISITE: Algebra I; Recommendation from previous mathematics teacher with a suggested grade average of "A" or "B" in Algebra and a passing score on the Algebra I mathematics SOL assessment.

HIGH SCHOOL COURSE OFFERINGS

ALGEBRA I 3130

1 Credit

This course is a study of the algebraic concepts needed to solve algebraic equations. Students use algebra as a tool for representing and solving a variety of practical problems. Tables and graphs are used to interpret algebraic expressions, equations, and inequalities and to analyze functions. Students make connections and build relationships among algebra and arithmetic, geometry, and probability and statistics.

ALGEBRA I MATH LAB ELECTIVE 32003

1 Elective Credit

Students who need additional time to master the algebraic concepts required in Algebra I are enrolled in this course upon enrollment in Algebra I (3130). This course counts as an elective credit but not as a math required credit.

CO-REQUISITE: Algebra I

GEOMETRY 3143

1 Credit

This course is a study of plane, three-dimensional, and coordinate geometry. Methods of justification of theorems include: paragraph proofs, flow charts, two-column proofs, indirect proofs, coordinate proofs, and verbal arguments. The courses emphasize two-dimensional and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems.

PREREQUISITE: Algebra I

ADVANCED GEOMETRY 31433

1 Weighted Credit

The content of this course offers a study of plane, three-dimensional, and coordinate geometry. Methods of justification of theorems include: paragraph proofs, flow charts, two-column proofs, indirect proofs, coordinate proofs, and verbal arguments. Emphasis is on two-dimensional and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. This course provides the foundation for students to pursue a sequence of advanced mathematical studies from Algebra II/Trigonometry to AP Precalculus to AP Calculus.

PREREQUISITE: Algebra I

ALGEBRA, FUNCTIONS AND DATA ANALYSIS (AFDA) 3134

1 Credit

Within the context of mathematical modeling and data analysis, students will study functions and their behaviors, systems of inequalities, probability, experimental design and implementations, and analysis of data. Data will be generated by practical applications arising from science, business, and finance. Students will solve problems that require the formulations of linear, quadratic, exponential, logarithmic equations or a system of equations.

NOTE: Course must be taken in sequence for math credit.

PREREQUISITE: Algebra I

DATA SCIENCE 3139

1 Credit

This course is designed for students to 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.

PREREQUISITE: Geometry

ALGEBRA II 3135

1 Credit

The content of this course provides a thorough treatment of advanced algebraic concepts through the study of functions, polynomials, rational expressions, complex numbers, matrices, sequences, and series. Emphasis is placed on practical applications and modeling. This course also includes graphing functions.

PREREQUISITE: Algebra I

ALGEBRA II/TRIGONOMETRY 3137

1 Weighted Credit

This course combines the content of Algebra II and Trigonometry and is taught at an accelerated pace. It provides the foundation for students to pursue a sequence of advanced mathematical studies from AP Precalculus to AP Calculus.

PREREQUISITES: Algebra I and Geometry or Advanced Geometry and recommendation from math teacher

ALGEBRA III 31602

.5 Credit

This course builds on the foundational skills learned in Algebra I, Geometry, and Algebra II to help prepare students for advanced math coursework. Topics studied include analytic geometry, functions and sequences and series.

PREREQUISITES: Geometry or Advanced Geometry, and Algebra II or Algebra II/Trigonometry

PROBABILITY & STATISTICS 31901

.5 Credit

This course provides a general introduction to probability and statistics. Topics include: descriptive statistics, probability, and a study of the methods used to analyze data and make predictions. A variety of application exercises and statistical software are utilized.

PREREQUISITES: Geometry or Advanced Geometry, Algebra II, or Algebra II/Trigonometry

TRIGONOMETRY 3150

.5 Credit

This course provides a thorough treatment of trigonometry through the study of trigonometric definitions, applications, graphing, and solving trigonometric equations and inequalities. Emphasis is placed on using connections between right triangle ratios, trigonometric functions, circular functions, the language of mathematics, logic of procedure, and interpretations of results. Applications and modeling are included.

PREREQUISITES: Geometry and Algebra II

DISCRETE MATHEMATICS 3154

.5 Credit

This course introduces contemporary mathematics with an emphasis on applications centered on the topics of probability, management science, social science, and measurement theory.

PREREQUISITES: Geometry or Advanced Geometry, and Algebra II or Algebra II/Trigonometry

AP PRECALCULUS 31620

1 Weighted Credit

This course is designed to prepare students for the AP Precalculus exam. It extends students' knowledge of function characteristics and introduces them to another mode of mathematical reasoning. Students enrolled in AP Precalculus have mastered Algebra II concepts and have completed trigonometry. Students will explore problems in various ways and learn how to make sense of changing situations.

PREREQUISITES: Geometry or Advanced Geometry, Algebra II/Trigonometry or Algebra II and Trigonometry, and recommendation from math teacher with a suggested grade of "A" or "B" in Algebra II or Algebra II/Trigonometry

DE DUAL ENROLLMENT PRECALCULUS DE-MTH161 DE-MTH162

Grades 11-12 1 Weighted Credit

The content of the course presents topics in power, polynomial, rational, exponential, logarithmic functions, and systems of equations. Topics in trigonometry, trigonometric applications including Law of Sines and Cosines and an introduction into conics are taught.

Dual Enrollment Precalculus I and Dual Enrollment: Precalculus II will prepare students for a course in statistics, applied calculus, and courses in calculus with analytic geometry. This is accomplished by providing students with the necessary competencies in algebra, functions, and conics. Students must get a grade of "C" or above in Precalculus I in order to continue into Precalculus II.

NOTE: This course is Dual Enrolled with Virginia Peninsula Community College (VPCC). Students must

meet admission and course placement requirements of the college. Requirements for admission include the completion of an application for admission to the college and demonstration of readiness for college through Grade Point Average (GPA), placement testing or eligible assessments.

PREREQUISITE: Algebra II/Trigonometry or Algebra II and Trigonometry

DE **DUAL ENROLLMENT**

NEW **QUANTITATIVE REASONING** **DE-MTH 154**

Grades 11-12 .5 Weighted Credit

Presents topics in proportional reasoning, modeling, financial literacy and validity studies (logic and set theory). Focuses on the process of taking a real-world situation, identifying the mathematical foundation needed to address the problem, solving the problem and applying what is learned to the original situation. This is a Passport and UCGS 3 credit transfer course.

NOTE: This course is Dual Enrolled with Virginia Peninsula Community College (VPCC). Students must meet admission and course placement requirements of the college. Requirements for admission include the completion of an application for admission to the college and demonstration of readiness for college through Grade Point Average (GPA), placement testing or eligible assessments.

DE **DUAL ENROLLMENT**

NEW **STATISTICS** **DE-MTH 245**

Grades 11-12 .5 Weighted Credit

Presents an overview of statistics, including descriptive statistics, elementary probability, probability distributions, estimation, hypothesis testing, correlation, and linear regression. This is a Passport and UCGS 3 credit transfer course.

NOTE: This course is Dual Enrolled with Virginia Peninsula Community College (VPCC). Students must meet admission and course placement requirements of the college. Requirements for admission include the completion of an application for admission to the college and demonstration of readiness for college through Grade Point Average (GPA), placement testing or eligible assessments.

PREREQUISITE: Completion of MTH 154 DE Quantitative Reasoning or MTH 161 DE Precalculus or equivalent, with a grade of C or better.

CALCULUS 31601

1 Credit

This course provides a thorough study of elementary functions, limits, and integral and differential calculus. Topics include: techniques and applications of the derivative; techniques and applications of the definite integral; and the Fundamental Theorem of Calculus.

PREREQUISITE: Precalculus or IB Math Applications and Interpretation

AP CALCULUS AB 31771

1 Weighted Credit

This course is designed to prepare students for the AP Calculus AB exam. Content is centered on properties of elementary functions, limits, and integral and differential calculus. A rigorous treatment of calculus theory and application is presented. Students taking this course are encouraged to take the AP Exam. This course may not be taken concurrently with AP Calculus BC.

PREREQUISITE: Precalculus or IB Math Applications and Interpretation

AP CALCULUS BC 31772

1 Weighted Credit

This course is designed to prepare students for the AP Calculus BC exam. Content includes topics in AP Calculus AB and explores in-depth additional calculus applications, including analysis of derivatives, L'Hôpital's Rule, applications of integrals, techniques of anti-differentiation, and polynomial approximations and series. Students taking this course are encouraged to take the AP Exam. This course may not be taken concurrently with AP Calculus AB.

PREREQUISITE: Precalculus or IB Math Applications and Interpretation

AP STATISTICS 3192

1 Weighted Credit

This course is designed to prepare students for the AP Statistics exam. In the course, students are introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics include exploring data, planning a study, anticipating patterns, and utilizing statistical inference. Students taking this course are encouraged to take the AP Exam.

PREREQUISITE: Algebra II or Algebra II/Trigonometry

SCIENCE

Secondary science courses play a vital and distinct role in preparing students for an increasingly complex world. Through the study of Earth, space, life, and physical sciences, students build the knowledge and habits of mind needed to become scientifically literate citizens. All courses emphasize inquiry-based investigations and hands-on experiences that foster conceptual understanding and develop critical thinking, problem-solving, and collaboration skills.

As graduation requirements vary based on graduation year and diploma type, please refer to page 3 for additional information.

Science Course Offerings & Suggested Sequences

Science 6

↓

Life Science 7

↓

Physical Science 8

Environmental Science	**Biology I**
↓	↓
Biology I	**Chemistry I, Earth Science, or Physics I**
↓	↓
Chemistry I, Earth Science, Physics I or Additional Science Courses	**Physics I or Additional Science Courses**

Science Additional Course Offerings

- Atmospheric Science & Climatology
- Ecology
- *Biology II / Mammalian Anatomy & Physiology
- *Biology II / Marine Science
- *AP Biology
- *DE Biology
- *AP Environmental Science
- *AP Physics I & II
- *DE Physics
- *AP Chemistry
- *AP Computer Science A

Science Discipline Areas

Biology

- Environmental Science
- Biology I
- Ecology
- *Biology II / Mammalian Anatomy & Physiology
- Biology II / Marine Science
- *AP Biology
- *AP Environmental Science
- *DE Biology

Earth Science

- Environmental Science
- Earth Science
- Atmospheric Science & Climatology
- *AP Environmental Science

Chemistry

- Chemistry I
- *AP Chemistry

Physics

- Physics I
- *AP Physics I
- *AP Physics II
- *DE Physics

* Weighted Course

MIDDLE SCHOOL COURSE OFFERINGS

SCIENCE 6 — 4105

Grade 6 — Year

This introductory course is designed to provide a thematic approach to areas of scientific study with an emphasis on earth/space science and scientific inquiry.

LIFE SCIENCE 7 — 4115

Grade 7 — Year

This introductory biology course is designed to introduce students to the scientific method of inquiry. Hands-on experiences with microscopes and other laboratory equipment enable students to study single and multi-celled organisms and their interrelationships.

ENGINEERING DESIGN & PROBLEM SOLVING — 982806

Grades 7-8 — Semester

This class exposes students to engineering-related careers through hands-on science, technology, engineering, and math activities which emphasize the engineering design process and incorporate high demand and high paying skills. In this course students will complete a career inventory, learn about career clusters and pathways, and demonstrate workplace readiness skills.

INTRODUCTION TO FORENSIC SCIENCE — 98269

Grades 7-8 — Semester

This semester elective course is designed for students with an interest in future forensic science and law enforcement careers. Students apply scientific investigation and technology to legal situations and experience hands-on learning involving the methodologies of forensic science and criminal justice.

PHYSICAL SCIENCE 8 — 4125

Grade 8 — Year

This introductory course to physics and chemistry explores concepts such as motion, light, sound, energy, and matter. Hands-on laboratory experiences are emphasized

HIGH SCHOOL COURSE OFFERINGS

ENVIRONMENTAL SCIENCE — 4200

Grade 9 — 1 Credit

The *Environmental Science* course integrates the study of scientific inquiry, the physical world, the living environment, resource conservation, humans' impact on the environment, and legal and civic responsibility. Student experiences include data collection and analysis through laboratory experiences and field work.

BIOLOGY I — 4310

Grades 9-12 — 1 Credit

This course is designed to provide a detailed understanding of living systems. Emphasis is placed on the skills necessary to examine alternative scientific explanations, actively conduct controlled experiments, analyze and communicate information, and acquire and use scientific literature. The history of biological thought and the evidence that supports it are explored and provide the foundation for investigating. biochemical life processes, cellular organization, mechanisms of inheritance, dynamic relationships among organisms, and the change in organisms through time. The importance of scientific research that validates or challenges ideas is emphasized at this level. Selected organisms are dissected.

EARTH SCIENCE — 4210

Grades 9-12 — 1 Credit

Major topics of study in this course include: plate tectonics, the rock cycle, earth history, the oceans, the atmosphere, weather and climate, the solar system, and the universe. Course objectives connect the study of the Earth's composition, structure, processes, and history, its atmosphere, freshwater, and oceans, and its environment in space. Historical contributions in the development of scientific thought about the earth and space are emphasized. The interpretation of maps, charts, tables, and profiles, the use of technology to collect, analyze, and report data, and science skills in systematic investigation are stressed. Application, problem solving, and decision-making are an integral part of the science standards, especially as they relate to the costs and benefits of utilizing the Earth's resources.

PREREQUISITE: Biology I

CHEMISTRY I — 4410

Grades 10-12 — 1 Credit

This course is designed to provide a detailed understanding of the interaction of matter and energy. This interaction is investigated through laboratory techniques, manipulation of chemical qualities, and problem-solving applications. Scientific methodology is employed in experimental and analytical investigations, and concepts are illustrated with practical applications. Technology, including probeware, graphing calculators and computers, is used where appropriate. Students understand and use safety precautions with chemicals and equipment. Course objectives emphasize qualitative and quantitative study of substances and

the changes that occur in them. Students are encouraged to share their ideas, use the language of chemistry, discuss problem-solving techniques, and communicate effectively.

PREREQUISITES: Algebra I and one year of a lab science

PHYSICS I 45101

Grades 10-12 1 Credit

Students build on basic physical science principles through in-depth exploration of applications in the everyday world. Key areas covered in this course include: force and motion, work and energy transformations, wave phenomena and the electromagnetic spectrum, light, electricity, fields, and non-Newtonian physics. The course emphasizes a complex understanding of experimentation, the analysis of data, and the use of reasoning and logic to evaluate evidence. Course objectives stress the practical application of physics in other areas of science, technology, and engineering.

PREREQUISITE: Biology I and Algebra II

ATMOSPHERIC SCIENCE & CLIMATOLOGY 4220

Grades 10-12 1 Credit

This course provides a study of atmospheric systems and global climate. Major topics include: changes in atmospheric composition over time, interaction between the oceans and the atmosphere, weather, climate and climate change, and current environmental issues such as global warming and ozone depletion. Learning experiences at (or in cooperation with) NASA Langley may be included.

BIOLOGY II/MAMMALIAN ANATOMY & PHYSIOLOGY 4330

Grades 11-12 1 Weighted Credit

This course is designed to acquaint the student with the anatomy and physiology of the vertebrate, using the cat as a representative animal for dissection.

PREREQUISITE: Biology I

BIOLOGY II/MARINE SCIENCE 4320

Grades 11-12 1 Weighted Credit

This course offers a study of the physical, geological, and chemical characteristics of the oceans of the world as well as a survey of the marine life of the mid-Atlantic region. Representative organisms are dissected.

PREREQUISITE: Biology I

ECOLOGY 4340

Grades 10-12 1 Credit

This applications lab science course teaches the relationship between people and their environment. The course stresses the significance of ecosystems, food, water, air, soil, mineral, and energy resources. Laboratory experiences provide a study of air, soil, and water pollution; food webs; endangered animals and habitats; energy sources; and recycling.

PREREQUISITE: Biology I

AP BIOLOGY 4370

1 Weighted Credit

This course is designed to prepare students for the AP Biology exam and to meet the objectives of general biology courses at the college level. A series of a minimum of eight (8) required experiments for the AP Exam are conducted along with additional lab experiences. Students taking this course are encouraged to take the AP Exam.

PREREQUISITE: Biology I & Chemistry I

DE DUAL ENROLLMENT BIOLOGY DE-BIO101 DE-BIO102

1 Weighted Credit

This course explores biological processes through a chemical lens, covering macromolecules, cellular structure, metabolism, and genetics within an evolutionary framework. Students will engage with core concepts including evolution; structure and function; information flow, storage, and exchange; energy pathways; and systems biology. Emphasis is placed on scientific inquiry, interdisciplinary connections, and the relevance of biology to society. Coursework requires college-level reading, coherent writing, and basic mathematical skills.

NOTE: This course is Dual Enrolled with Virginia Peninsula Community College (VPCC). Students must meet admission and course placement requirements of the college. Requirements for admission include the completion of an application for admission to the college and demonstration of readiness for college through Grade Point Average (GPA), placement testing or eligible assessments.

PREREQUISITES: Biology I and Chemistry I

AP CHEMISTRY 4470

1 Weighted Credit

This course is designed to acquaint the student who has successfully completed Chemistry I with additional concepts covered in general college chemistry courses. Sufficient laboratory experiences are offered to reinforce classroom material, familiarize the student with equipment and chemicals, develop laboratory skills and techniques, and to observe, interpret, and draw conclusions. Students taking this course are encouraged to take the AP Exam.

PREREQUISITE: Algebra II

AP ENVIRONMENTAL SCIENCE 42701

1 Weighted Credit

The goal of the 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 or preventing them. Students taking this course are encouraged to take the AP Exam.

PREREQUISITES: Algebra I; Completion of two high school laboratory sciences – one credit of Life Science (Biology) and one credit of Physical Science (Earth Science or Chemistry)

AP PHYSICS I 4570

1 Weighted Credit

This course is an algebra-based, introductory, college-level physics course. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on inquiry-based laboratory work as they explore a systematic introduction to Newtonian mechanics. Topics include kinematics, forces, work, energy and power, momentum, rotational motion and dynamics, oscillations and fluids. It emphasizes the development of conceptual understanding and problem-solving ability using algebra, trigonometry, and vectors. The course content is equivalent to a first-semester college course in algebra-based physics. Students taking this course are encouraged to take the AP Exam.

PREREQUISITE: Algebra II/Trigonometry or Trigonometry
CO-REQUISITE: AP Pre-Calculus or DE Precalculus

AP PHYSICS II 4571

1 Weighted Credit

This course cultivates student understanding of physics through inquiry-based investigations as they explore the principles of thermodynamics, electricity, magnetism, optics, waves, sound, and topics in modern physics. It emphasizes the continued development of conceptual understanding and problem-solving ability using algebra and trigonometry. The course content is equivalent to a second-semester college course in algebra-based physics. Students taking this course are encouraged to take the AP Exam.

PREREQUISITE: AP Physics I

DE DUAL ENROLLMENT PHYSICS I & II NEW DE-PHY 201 DE-PHY 202

Grades 11-12 1 Weighted Credit

Dual Enrollment Physics 1 & 2 will introduce students to classical mechanics, thermodynamics, waves, electromagnetism, optics, and modern physics. Fall semester includes kinematics, Newton's laws of motion, work, energy, momentum, rotational kinematics, dynamic and static equilibrium, elasticity, gravitation, fluids, simple harmonic motion, calorimetry, ideal gas law, and the laws of thermodynamics. Spring Semester includes mechanical waves, sound, electrostatics, Ohm's law and DC circuits, magnetic forces and magnetic fields, electromagnetic induction, ray optics, wave optics, and selected topics of modern physics.

NOTE: This course is Dual Enrolled with Virginia Peninsula Community College (VPCC). Students must meet admission and course placement requirements of the college.

PREREQUISITES: DE Precalculus

SPECIAL EDUCATION

Students receiving special education services who are enrolled in general education courses may require accommodations and/or modifications to fully access the curriculum. The modifications and appropriate designations are determined by the IEP team and documented on the student's IEP. Courses listed within this section are available to all students who meet state eligibility criteria for special education services and are being served on an Individualized Education Program (IEP). This continuum includes specially designed instruction, accommodations, and related services in general education, special education and/or community environments.

MIDDLE SCHOOL COURSE OFFERINGS

ACADEMIC LAB
7896
78961
78962

Grade 7 -8 | Semester

This individualized course is designed to provide specialized instruction in reading, writing and math as identified by a student's IEP. Skills are taught using evidence-based practices and research-based interventions for individuals with disabilities. In addition to academic skills, social, behavioral and transition skills can also be addressed as outlined in a student's IEP.

APPLIED ENGLISH
00K810

Grades 6-8 | Year

This individualized instructional course follows the Virginia Essentialized Standards of Learning for middle school English. This course emphasizes basic reading, listening, speaking, spelling, vocabulary, grammar, and writing as outlined on the student's IEP. This course may be offered in a special education resource room or in a general education setting.

APPLIED HISTORY/SOCIAL SCIENCE
00K850

Grades 6-8 | Year

This individualized instructional course follows the Virginia Aligned Standards of Learning for middle school History/Social Science. Students will learn important information about American history, world history, economics and citizenship. This course may be offered in a special education resource room or in a general education setting.

APPLIED MATHEMATICS
00K830
31102
31112
31122

Grades 6-8 | Year

This individualized instructional course follows the Virginia Essentialized Standards of Learning for middle school mathematics. Skills taught in this course will include mathematical calculation and problem solving, as well as functional daily living applications of math. This course may be offered in a special education resource room or in a general education setting.

APPLIED SCIENCE
00K840
41052
41152
41252

Grades 6-8 | Year

This individualized instructional course follows the Virginia Essentialized Standards of Learning for middle school science. Students will explore the scientific method and take a hands-on approach to scientific investigation. This course may be offered in a special education resource room or in a general education setting.

PRE-VOCATIONAL TRAINING & INDEPENDENT LIVING
7898

Grades 6-8 | Year

This course is designed to prepare students for supported or competitive employment as well as community and independent living. Reading, math, social skills, and citizenship are integrated into pre-vocational skills training to make learning immediately relevant.

HIGH SCHOOL COURSE OFFERINGS

ACADEMIC LAB I — 78964, 78965

Grades 9-10 — .5 Credit

Academic Lab I will develop skills to prepare students with disabilities to become future ready graduates through engagement in various skills. Students will build a foundation in study and organizational skills, goal setting, effective communication, problem solving, conflict resolution, self-determination, and self-advocacy skills. In addition, this course ties in important topics related to the IEP Transition Plan areas of education, employment, training and independent living through career exploration, preparing for a job, and resources and opportunities in the local community. Specially designed instruction (SDI) to address individualized goals will be provided in accordance with each student's Individualized Education Plan (IEP).

NEW ACADEMIC LAB II — 78966, 78967

Grades 11-12 — .5 Credit

Academic Lab II will reinforce and strengthen skills to prepare students with disabilities to become future ready graduates. Emphasis is on building and applying skills in authentic situations and prepare students for life after high school. This course will teach and apply study and organizational skills, building independence, employability skills, being a responsible citizen, leadership and critical thinking skills. In addition, this course ties in important topics related to the IEP Transition Plan areas of education, employment, training and independent living through career exploration, preparing for a job, and resources and opportunities in the local community. Specially designed instruction (SDI) to address individualized goals will be provided in accordance with each student's Individualized Education Plan (IEP).

PRACTICAL ENGLISH — 1516

Grades 9-12 — 1 Credit

This individualized instructional course follows the Virginia Essentialized Standards of Learning for high school English. This course is designed to teach and reinforce the basic oral and written communication skills needed for independent living as outlined on the IEP. This course may be offered in a special education resource room or in a general education setting.

PRACTICAL HISTORY/SOCIAL SCIENCE — 2998

Grades 9-12 — 1 Credit

This individualized instructional course follows the Virginia Aligned Standards of Learning for high school history. This course is designed to develop attitudes, values, and history/social science knowledge that lead to responsible participation in the world of work and to productive citizenship as outlined on the student's IEP. This course may be offered in a special education resource room or in a general education setting.

PRACTICAL LIFE SKILLS — 78963

Grades 9-12 — Year

This individualized instructional course is designed to develop, strengthen, or reinforce basic adaptive skill areas as outlined on the student's IEP. This course may be offered in a special education resource room or in a general education setting.

PRACTICAL MATH — 3201

Grades 9-12 — 1 Credit

This individualized instructional course follows the Virginia Aligned Standards of Learning for high school math. This course also focuses on basic mathematical concepts needed for independent living as outlined on the student's IEP. This course may be offered in a special education resource room or in a general education setting.

PRACTICAL SCIENCE — 4612

Grades 9-12 — 1 Credit

This individualized instructional course follows the Virginia Essentialized Standards of Learning for high school science. This course is designed to develop attitudes, values, and science knowledge that lead to responsible participation in the world of work and to productive citizenship as outlined on the student's IEP. This course may be offered in a special education resource room or in a general education setting.

PRE-VOCATIONAL SKILLS — 78981

Grades 9-12 — Year

This individualized instructional course of work adjustment and other skills needed for career awareness and job placement for identified students with disabilities is designed to teach/reinforce work adjustment as outlined on the student's IEP. This course may be offered in a special education resource room or in a general education setting.

PROJECT EXPLORE — 78982

Grades 9-12 — Year

This course is designed as an introductory course for students with disabilities to assist in understanding, changing and improving specific work behaviors that will aid in the fulfillment of postsecondary goals. Project EXPLORE is operated through school-based enterprises in each of the four high schools. Related functional academic skills are taught in the classroom to support the jobs required for the business. This

course is intended to prepare students for Project EXPERIENCE and may be repeated based on individual student needs.

PROJECT EXPERIENCE 78983

Grades 11-12 1 Credit

This program provides community-based employment skills for students with disabilities. Students submit applications to Coordinator of Special Education for Secondary Transition for approval to enroll in this course. The program is based on a supported employment model with adaptations being made for the needs of individual students. Students are supervised at the work site by a Para-educator Job Coach. Program emphasis is on IEP Transition goals, the development of work behaviors, as well as work skills. The Para-educator Job Coach works cooperatively with home school teachers and adult service providers to support each student's Individual Transition Plan, coordinate student programming, and address student needs. This training program has several objectives: job exploration, job preparation and first-hand knowledge of work requirements. The goal is to transition students from school to employment or adult services, according to their individual needs. This course may be repeated based on individual student needs.

PROJECT SEARCH 78984

Grade 12 Year

This individualized post graduate program includes a full day of functional instruction and job coaching. Students rotate through internships with mentors and job coaches assisting in employment skill development. The goal of this program is competitive employment for student participants. Interested students must go through an application process, including an interview, and meet Business Liaison's employment requirements before being accepted to the program. Applications should be submitted to the Coordinator of Special Education for Secondary Transition. This course is for one year only and may not be repeated. Note: Project SEARCH students participate in internships that are off site from YCSD schools. This program is for post-graduate students with disabilities pursuing an Applied Studies diploma who have successfully completed Project EXPLORE and Project EXPERIENCE (or similar work experience) and continue to be eligible to receive special education services. This program is in partnership with several surrounding school divisions.

WORLD LANGUAGES

The acquisition of other languages will enable students to communicate across cultures and gain knowledge of other cultures in order to interact effectively within the community and global marketplace.

- *German I-IV and Latin I-III will be offered virtually beginning in grade 7 for students who do not have Latin or German courses available in their schools.*
- *Students pursuing the YCSD Honors Program may take Latin, but must also study another language through Level IV to meet the four-year requirement.*
- *As graduation requirements vary based on graduation year and diploma type, please refer to page 3 for additional information.*

MIDDLE SCHOOL COURSE OFFERINGS

EXPLORATORY WORLD LANGUAGES 6 — 57001

Grade 6 — Quarter

This course introduces the languages, cultures, and customs of a variety of countries from around the world.

ESL RIGOR — 11084

Grades 6-8 — Year

The course provides middle school English Learners with strategies and skills to build academic vocabulary, comprehension, and content knowledge through reading and analyzing a variety of non-fiction texts.

EXPLORATORY WORLD LANGUAGES 7 & 8 — 57003

Grade 7-8 — Semester

This course introduces cultural heritage and beginning conversational skills in French and Spanish.

GERMAN I — 5210

Grades 7-8 — 1 Credit

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students learn basic skills in listening, speaking, reading and writing with an emphasis on the ability to communicate orally and in writing in various social and academic settings.

FRENCH I — 5110
SPANISH I — 5510

Grades 7-8 — 1 Credit

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students learn basic skills in listening, speaking, reading and writing with an emphasis on the ability to communicate orally and in writing in various social and academic settings.

LATIN I — V5310

Grades 7-8 — 1 Credit

Level I Latin is a study of grammatical patterns and vocabulary with introductory translation of Latin stories.

GERMAN II — V5220
LATIN II — V5320

Grades 7-8 — 1 Credit

Students continue to develop proficiency in all four language skills: listening, speaking, reading, and writing, with an emphasis on the ability to communicate orally and in various social and academic settings. Emphasis is placed on real-life situations, reading materials, and producing short writings using more complex sentences and language structures within the cultural context of home life, student life, leisure time, vacation, and travel.

PREREQUISITE: Level I of selected World Language

FRENCH II — 5120
SPANISH II — 5520

Grades 7-8 — 1 Credit

Students continue to develop proficiency in all four language skills: listening, speaking, reading, and writing, with emphasis on the ability to communicate orally and in various social and academic settings. Emphasis is placed on real-life situations, reading materials, and producing short writings using more complex sentences and language structures within the cultural context of home life, student life, leisure time, vacation, and travel.

PREREQUISITE: Level I of selected World Language

HIGH SCHOOL COURSE OFFERINGS

AMERICAN SIGN LANGUAGE I V5910

Grades 9-12 1 Credit

This course provides an introduction to the basic skills in production and comprehension of American Sign Language (ASL). The course focuses on the alphabet, numbers, fingerspelling, vocabulary, and grammar which will lead to increased communicative and cultural proficiency in ASL. The culture, history, current events, and traditions of the Deaf community are introduced through selected readings, visual recordings, and other authentic materials. Each student should be able to carry on a short conversation with another student by the end of the course. Also, students will develop the practical skills and knowledge necessary for basic interactions within the Deaf community.

AMERICAN SIGN LANGUAGE II V5920

Grades 9-12 1 Credit

In this course, students will build upon the skills that were taught in American Sign Language I and continue to increase their ability to comprehend and respond with increasing accuracy to expressive American Sign Language (ASL). ASL II provides basic instruction in production and comprehension, vocabulary, and grammar, and eventually leads to increased communicative and cultural proficiency in ASL. Emphasis is placed on the progressive development of expressive and receptive skills. The culture, history, current events, and traditions of the Deaf community are introduced on the appropriate level through selected readings, visual recordings, and other authentic materials. Students will be able to converse with another student or individuals within the Deaf community, with emphasis on appropriate language used in common communication settings.

PREREQUISITE: American Sign Language I

AMERICAN SIGN LANGUAGE III V5930

Grades 9-12 1 Credit

In this course, students will build upon the skills taught in ASL II and continue to increase their ability to comprehend and respond with increasing accuracy to expressive American Sign Language. ASL III provides advanced instruction in production and comprehension, vocabulary, and grammar, leading to increased communicative and cultural proficiency in ASL. Emphasis is placed on the progressive development of expressive and receptive skills. The culture, history, current events, and traditions of the Deaf community are expounded upon through selected readings, visual recordings, and other authentic materials. Visually attending, signing, individual feedback, interactive activities and group activities are designed to instruct, reinforce, connect language skills, and develop signacy. This course includes applications, problem solving, higher-order thinking skills, and performance-based and project-based assessments. Students will be able to converse with another student or individuals within the Deaf community with emphasis on appropriate language used in common communication settings. This course aligns with the Virginia Department of Education's Framework for Instruction in American Sign Language in Virginia's Public Schools.

PREREQUISITE: American Sign Language I and American Sign Language II (required)

ENGLISH AS A WORLD LANGUAGE I 5710

Grades 9-12 1 Credit

This course is designed to help English Learners with proficiency in vocabulary development, grammar, word order, and parts of speech. Students practice oral communication, and develop writing skills within the context of home life, student life, leisure time, and post-secondary endeavors.

ESL RIGOR 15153

Grades 9-12 1 Credit

The course provides high school English Learners with strategies and skills to build academic vocabulary, comprehension, and content knowledge through reading and analyzing a variety of non-fiction texts.

FRENCH I 5110
GERMAN I 5210S
PANISH I 5510

Grades 9-12 1 Credit

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students learn basic skills in listening, speaking, reading and writing with an emphasis on the ability to communicate orally and in writing in various social and academic settings.

FRENCH II 5120
GERMAN II 5220
SPANISH II 5520

Grades 9-12 1 Credit

Students continue to develop proficiency in all four language skills: listening, speaking, reading, and writing, with an emphasis on the ability to communicate orally and in various social and academic settings. Emphasis is placed on real-life situations, reading materials, and producing short writings using more complex sentences and language structures

within the cultural context of home life, student life, leisure time, vacation, and travel.

PREREQUISITE: Level I of selected World Language

FRENCH III 5130
GERMAN III 5230
SPANISH III 5530

Grades 9-12 — 1 Credit

Students continue to develop proficiency in all four language skills: listening, speaking, reading, and writing, with an emphasis on the ability to communicate orally and in writing at a higher level with minimal use of English in the classroom. Emphasis is on communication using more complex sentences and language structures within the cultural context of home life, student life, leisure time, vacation and travel.

PREREQUISITE: Level II of selected World Language

LATIN I V5310

Grades 9-12 — 1 Credit

Level I Latin is a study of grammatical patterns and vocabulary with introductory translation of Latin stories.

LATIN II V5320

Grades 9-12 — 1 Credit

Level II Latin emphasizes grammatical patterns and vocabulary with the translation of Latin stories at an intermediate level of difficulty.

PREREQUISITE: Latin I

ENGLISH AS A WORLD LANGUAGE II 5720

Grades 9-12 — 1 Credit

This course supports English Learners with vocabulary development, grammar, speech, and oral communication. Emphasis is placed on real-life situations, reading materials, and production of written compositions using complex sentences and language structures within the context of home life, student life, leisure time, and post-secondary endeavors.

PREREQUISITE: Level I of a World Language or Screener Assessment Score

FRENCH IV 5140
GERMAN IV 5240
SPANISH IV 5540

Grades 10-12 — 1 Weighted Credit

Students continue to develop and refine their proficiency in all four language skills: listening, speaking, reading, and writing, with an emphasis on the ability to interact orally and in writing. They communicate on a variety of topics using more complex language structures. At this level, students comprehend the main ideas of authentic materials and are able to develop original written materials on familiar topics. Students gain a deeper understanding of cultural perspectives, practices, and products.

PREREQUISITE: Level III of selected World Language

LATIN III V5330

Grades 10-12 — 1 Credit

Level III Latin builds on grammatical forms and patterns and begins a study of selected Roman authors in prose and poetry.

PREREQUISITE: Latin II

AP FRENCH LANGUAGE 5170

Grades 11-12 — 1 Weighted Credit

This course is designed to prepare students to take the AP exam for college credit. Students develop more advanced communication skills in all four areas: listening, speaking, reading and writing, with an emphasis on the ability to interact orally and in writing. At this level, students create and listen with understanding to reports, presentations, interpretive, and expressive composition. Emphasis is placed on listening to native speakers, reading periodicals with more advanced vocabulary and grammatical structures, writing compositions several paragraphs in length, and orally communicating facts and ideas using all tenses and moods with reasonable fluency. The primary language spoken at this level is French. Students taking this course are encouraged to take the AP Exam.

PREREQUISITE: French IV andTeacher Recommendation

AP GERMAN 5270

Grades 11-12 — 1 Weighted Credit

AP German is designed to increase students' knowledge of German culture and language; it is also designed to prepare students for the AP German Language and Culture exam. This course will integrate all three communicative modes: interpersonal (oral and written), interpretive (oral and written), and presentational (oral and written); it will do this through the use of authentic materials. When communicating, students will demonstrate an understanding of the German culture, will incorporate interdisciplinary topics (Connections), will make comparisons between English and German and between German and American cultures (Comparisons), and will use German in real-life settings (Communities). Students will show an awareness of practices, perspectives, and cultural products, both tangible and intangible.

PREREQUISITE: German IV. Native speakers are evaluated after level 3.

AP SPANISH LANGUAGE AND CULTURE 5570

Grades 11-12 — 1 Weighted Credit

This course is designed to prepare students to take the AP exam for college credit. Students develop more

advanced communication skills in all four areas: listening, speaking, reading and writing, with an emphasis on the ability to interact orally and in writing. Students communicate using more complex language structures and express abstract ideas with reasonable fluency. At this level, students create and listen with understanding to reports, presentations, interpretive and expressive composition. Students gain greater insights into culture through literature and other advanced reading. Emphasis is placed on listening to native speakers, reading periodicals with more advanced vocabulary and grammatical structures, writing compositions several paragraphs in length, and orally communicating facts and ideas using all tenses and moods with reasonable fluency. The primary language spoken at this level is Spanish. Students taking this course are encouraged to take the AP Exam.

PREREQUISITE: Spanish IV and Teacher Recommendation

AP SPANISH LITERATURE AND CULTURE 5506

Grades 11-12 | 1 Weighted Credit

AP Spanish Literature and Culture is equivalent to a college level introductory survey course of literature written in Spanish. Students continue to develop their interpretive, interpersonal, and presentational skills in Spanish language as well as critical reading and analytical writing as they explore short stories, novels, plays, essays, and poetry from Spain, Latin America, and U.S. Hispanic authors along with other non-required texts.

PREREQUISITE: AP Spanish Language and Culture

DE NEW DUAL ENROLLMENT SPANISH DE-SPAN 201 DE-SPAN 202

Grades 11-12 | 1 Weighted Credit

Continues to develop cultural awareness, listening, speaking, reading, and writing skills, and introduces complex sentence structures. Classes may be conducted in target language. Part I of II. This is a UCGS 3 credit transfer course.

NOTE: This course is Dual Enrolled with Virginia Peninsula Community College (VPCC). Students must meet admission and course placement requirements of the college. Requirements for admission include the completion of an application for admission to the college and demonstration of readiness for college through Grade Point Average (GPA), placement testing or eligible assessments.

PREREQUISITES: Spanish IV with a grade of B or better

SPECIALTY PROGRAMS COURSE OFFERINGS

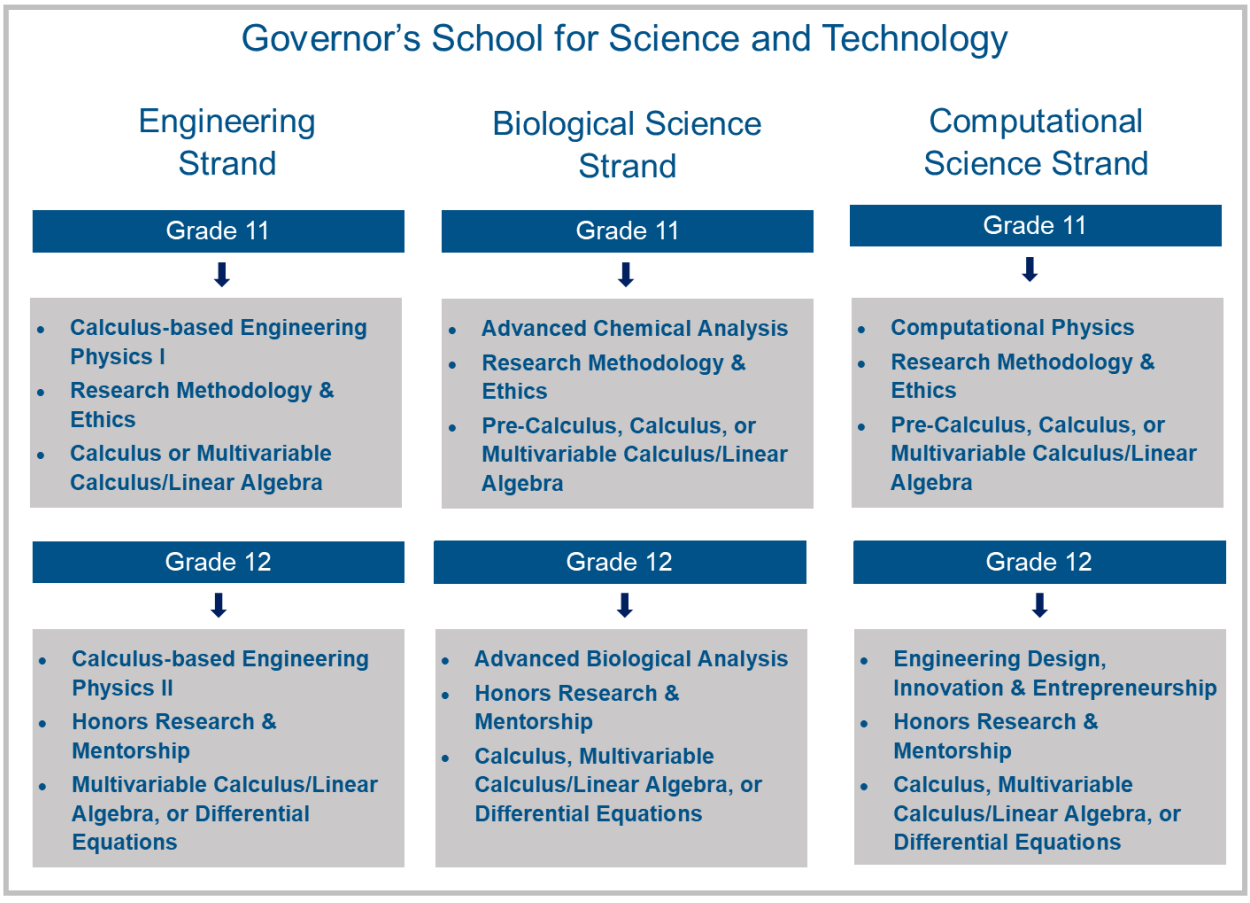
GOVERNOR'S SCHOOL FOR SCIENCE & TECHNOLOGY (GSST)

The Governor's School for Science and Technology (GSST) at New Horizons Regional Education Center is operated by Gloucester, Hampton, Newport News, Poquoson, Williamsburg-James City County, and York County Schools. Students enrolled in the program select one of three academic strands as their focus for their Governor's School experience. Each strand provides a unique emphasis on both the science subject matter and associated career fields.
In addition, each strand will foster research through a Research Methodology and Ethics course the junior year, and an Honors Research and Mentorship placement the senior year. Visit nhrec.org/gsst/ to view the most current GSST program course offerings.

Engineering Strand
The Engineering Strand involves an intense, rigorous study of fundamental principles of engineering and calculus-based physics.
PREREQUISITES: biology, chemistry, and math minimum of precalculus

Biological Science Strand
The Biological Science Strand provides insights into organic and inorganic chemistry, cell and molecular biology, genetics, and the diversity and physiology of organisms.
PREREQUISITES: biology, chemistry, and math minimum of Algebra II/Trig Recommended that students take physics at their zoned school

Computational Science Strand
The Computational Science Strand builds conceptual knowledge and problem-solving skills in the areas of software development, modeling and simulation of discrete and continuous systems and topics in non-calculus based physics.
PRREQUISITES: biology, chemistry, and math minimum of Algebra II/Trigonometry



GSST COURSE OFFERINGS

ADVANCED CHEMICAL ANALYSIS 4471

Grade 11 | 2 Weighted Credits

This course focuses on the fundamental principles and laws of chemistry. Extensive laboratory work and problem solving will serve as the basic tools for students to explore chemistry topics. The course will provide insights into organic and inorganic chemistry. The students will explore advanced concepts such as kinetics, acid/base chemistry, equilibrium, thermochemistry and electrochemistry. The course will emphasize problem solving and higher order thinking skills through chemical calculations.

NOTE: Advanced Chemical Analysis is a college-level course with a strong focus on laboratory work. It examines topics typically studied during the first year of college by science majors.

CALCULUS-BASED ENGINEERING PHYSICS I 4571-1

Grade 11 | 2 Weighted Credits

This is a mathematically rigorous course that investigates the principles of classical mechanics and thermodynamics. Includes kinematics, Newton's laws of motion, work, energy, momentum, rotational kinematics, dynamics and static equilibrium, elasticity, gravitation, fluids, simple harmonic motion, calorimetry, ideal gas law, and the laws of thermodynamics. The course covers calculus-based introductory physics with laboratory sequence. It provides the student with a broad understanding of the general concept and principles of the physical universe, and prepares the student for advanced study in physical sciences and engineering through development of skills in problem solving, critical thinking and quantitative reasoning, and an understanding of the methods of scientific inquiry and experiments. The course is the first year of a two-year calculus-based introductory physics course with laboratory sequence.

PREREQUISITE: Calculus

COLLEGE MODERN PRE-CALCULUS 3162

Grade 11 | 1 Weighted Credit

This course is an intensive, rigorous approach to mathematics designed to prepare students for college calculus. First semester, students will focus on the algebraic and geometric properties of polynomial, rational, exponential, logarithmic, and trigonometric functions, and engage in discussions about how these models are represented in the real world. Second semester, students will learn the analytic properties of trigonometric functions and geometric conics, as well as learning the properties of polar coordinates, vectors, matrices, parametrics, and sequences and series. The course concludes with an introduction to calculus.

COMPUTATIONAL PHYSICS 4525

Grade 11 | 2 Weighted Credits

Teaches fundamental principles of physics and scientific programming in Python. Based on college-level Physics 201 and 202, the course covers forces, Newton's laws of motion, conservation laws, gravity, properties of matter, oscillations, optics, electricity, magnetism, and special relativity. In the first semester, students study college physics and Python as two separate subjects. Then, during the second semester, programming skills are applied to the solution of physics problems. The concepts are reinforced through weekly labs, hands-on demonstrations, and projects.

PREREQUISITE: Algebra II/Trigonometry

RESEARCH METHODOLOGY AND ETHICS 4610

Grade 11 | 1 Weighted Credit

This year-long course provides junior STEM students with knowledge and experiences on how to conduct scientific researches and engineering projects. Students will study contemporary issues in scientific research while conducting independent research projects outside of class. Students are encouraged to select projects consistent with their strand or career goals. Course topics include research design strategies, data analysis and representation (with and without computer-assistance), norms of conduct for ethical research behavior, and the historical basis for current research regulations, among others. All students must conduct a review of the primary literature to support their research design assumptions, prepare and present a plan of their proposed research for institutional review and approval, conduct their studies and report their findings via formal technical paper as well as oral presentation. All students present posters in our junior science symposium, judged by professionals in various fields. Participation in regional science and engineering fairs are highly encouraged; learning fundamental knowledge of the engineering method, design for human use, and entrepreneurship are requisite skills today to perform research, problem-solve, innovate, and create opportunities in the real world. The engineering design content of the course requires that students first understand and then continuously improve their skills in the engineering method, the fundamentals of design for human use, and the mindset and skills of entrepreneurship.

COLLEGE CALCULUS 3177

Grades 11-12 1 Weighted Credit

This course covers two semesters of university-level calculus for scientists and engineers, emphasizing understanding and application. The first semester covers limits and continuity of functions, techniques and applications of differentiation, and introduces integration. The second semester covers applications and advanced techniques of integration, differential equations, sequences and series, and analytical geometry. Upon completion of this course, students will understand both the geometric and rate of change analyses of differential and integral calculus. Students will apply their understanding of calculus to modeling real-world situations mathematically and be able to solve those mathematical models.

NOTE: Successful completion of this course will prepare students to enroll in multivariable calculus and linear algebra.

MULTIVARIABLE CALCULUS/ LINEAR ALGEBRA 3178

Grades 11-12 1 Weighted Credit

In multivariable calculus, students extend their study of calculus from the plane into 3-dimensional space and beyond. After an initial examination of geometry and algebra of 3-space, students will use differential and integral calculus to study the nature of curves and surfaces in 3-space. Topics include linear approximations of curves and surfaces in 3-space, optimization of functions in several variables, and use of integral calculus to study area, volume, and other applications. In linear algebra students will cover matrices, vector spaces, determinants, solutions of systems of linear equations, basis and dimension, eigenvalues, and egenvectors. The semester concludes with an examination of the calculus of vector fields.

PREREQUISITE: GSST College Calculus or completion of AP Calculus BC with a score of 5 on the exam, or a score of 4 and permission of the instructor.

ADVANCED BIOLOGICAL ANALYSIS 4371

Grade 12 2 Weighted Credits

In the fall semester, topics in the field of cell and molecular biology will be addressed, some of which include the roles of biological macromolecules, cellular organization and metabolism, and cellular processes such as communication, reproduction, respiration, and photosynthesis. In addition, mechanisms of inheritance and control of gene expression will be examined, followed by a study of developments in biotechnology. In the spring semester, evolution, phylogeny, and the diversity of living things will be discussed, with a special focus on the anatomy and physiology of plants and animals. The laboratory experience is a major component of the course, allowing students the opportunity to use technologies applied in research as well as medical and forensic laboratories while designing their own experiments and analyzing and interpreting their results. The anatomy and physiology of various vertebrate organ systems will be compared while dissecting animals in the laboratory.

NOTE: Advanced Biological Analysis is a college-level course that examines the topics typically studied during the first year of college by biology majors.

PREREQUISITE: Advanced Chemical Analysis

CALCULUS-BASED ENGINEERING PHYSICS II: MODERN PHYSICS AND APPLIED PHYSICS: ENGINEERING DESIGN PRINCIPLES 45712

Grade 12 2 Weighted Credits

This second-year calculus-based physics course builds upon the foundational principles established in the first year, exploring advanced topics in a cohesive manner. The course integrates theoretical understanding with practical application, emphasizing problem-solving skills and conceptual mastery. Physics II covers fluid mechanics and thermodynamics, electricity and magnetism, optics, and modern physics, extending the knowledge gained in the first semester. Adopting a practical approach inspired by project-based engineering experiences, the course aims to develop essential engineering skills. Students engage in computer programming in C++ with a focus on object-oriented programming, participate in hands-on design and troubleshooting of solid-state electronics and digital systems, utilize industry-standard computer-aided design software, and work with additive manufacturing fabrication systems. Throughout the semester, students tackle challenging keystone projects following the earlier-described approach. They identify authentic engineering problems, propose innovative solutions, obtain client approval, and proceed to design, build, and demonstrate their final products. These projects involve professional interactions with esteemed leaders from organizations such as NASA, SNAME, and the Jefferson Labs.

PREREQUISITE: Engineering Physics I, Calculus

COMPUTATION SCIENCE: ENGINEERING DESIGN, INNOVATION & ENTREPRENEURSHIP 4550

Grade 12 2 Weighted Credits

Learning fundamental knowledge of design innovation and science disciplines and the requisite skills to perform research, problem-solve, innovate, and create opportunities in the real world are the overarching goals of this course. The course also includes a series of project-based learning experiences to help the student acquire and apply the skills, tools, and best practices of

the STEM profession. Learning tools include, for example, industry standards and research modeling and simulation software, hands-on design and troubleshooting of solid state systems, and industry standard computer-aided-design software, and additive manufacturing fabrication systems. In challenging keystone projects, students are tasked to identify real-world engineering problems or opportunities, to propose and seek client approval for their unique solutions or innovations, then to design, build, and demonstrate their final products.

PREREQUISITES: Computational Physics and Pre-Calculus

DIFFERENTIAL EQUATIONS 3179

Grade 12 | 1 Weighted Credit

This year-long course introduces the methods, theory, and applications of differential equations. The course introduces first-order, second and higher-order linear equations, series solutions, linear systems of first-order differential equations, and the associated matrix theory.

PREREQUISITE: Successful completion of GSST College Calculus

HONORS RESEARCH & MENTORSHIP 46121

Grade 12 | 2 Weighted Credits

Students explore advanced topics in scientific research with an emphasis on scientific literature and methods leading to the preparation of a research proposal in conjunction with the mentorship work. Students will prepare research documents using LaTeX for professional documents preparation. Mentorship involves students in concentrated research or project development in firms and laboratories throughout the Tidewater region. Students are supervised by mentors who are scientists, engineers, physicians and other professionals. Students plan, implement, document and present research or projects chosen in consultation with their mentors. Students refine their research and presentation techniques, problem-solving, critical thinking and leadership skills. Students gain proficiency with statistical software like Excel for presentation and analysis of data. Students will explore the new and young field of data science at an introductory level that provides a broad overview of the use and application of data science in daily life. Moreover, students will learn to think critically with regard to the ethics of data collection and analysis in research, industry, and government. Programming will be an integral part of the course material and assignments. Students will learn how to program in R, a program for statistics and data science. Overall, topics that are covered include introductory statistics, use and ethics of data analysis, collection, and use, and programming of data analysis programs in R.

NOTE: This course provides students with an opportunity to integrate theory, knowledge and application through a research experience.

INTERNATIONAL BACCALAUREATE (IB) DIPLOMA

The International Baccalaureate (IB) Diploma Programme at York High School in grades 11 and 12 is an internationally recognized course of study. The rigorous coursework is designed to provide students with a well-rounded education and to facilitate geographic and cultural mobility.
While the International Baccalaureate (IB) Programme provides a two-year curriculum, students are encouraged to participate in Pre-Diploma classes in grades 9 and 10.
IB courses are identified as Standard Level (SL), requiring a minimum of 150 instruction hours, or Higher Level (HL), requiring 240 instructional

The IB Diploma Programme requires each student to take courses in six academic areas. To qualify for the International Baccalaureate Diploma, students must take examinations in six subject areas, participate in the Creativity, Activity, and Service (CAS) program, and write an extended essay during the grades 11 and 12.

As graduation requirements vary based on graduation year and diploma type, please refer to page 3 for additional information

IB Course Offerings & Suggested Sequences

Grade 9	Grade 10	Grade 11	Grade 12
*Advanced English 9	*Advanced English 10: AP Seminar	*IB English (HL) 11	*IB English (HL) 12
*AP World History	*AP United States Government	*IB History (HL) 11	*IB History (HL) 12
*Advanced Geometry or *Algebra II/Trigonometry	*Algebra II/Trigonometry or *AP Pre-Calculus	*IB Math Analysis or *IB Math Applications	*Calculus, *AP Calculus, or *AP Statistics
Biology I	Chemistry I or Physics I	*IB Biology (HL) 11 *IB Chemistry (HL) 11 *IB Physics (HL) 11	*IB Biology (HL) 12 *IB Chemistry (HL) 12 or *IB Physics (HL) 12
Level II or III French, German, or Spanish	Level III or IV French, German, or Spanish	*IB French (SL/HL) 11 *IB German (SL) 11 *IB Spanish (SL/HL) 11 *IB Spanish Ab Initio (SL) 11	*IB French (SL/HL) 12 *IB German (SL) 12 *IB Spanish (SL/HL) 12 *IB Spanish Ab Initio (SL) 12
Health and Physical Education	Health and Physical Education	*IB Geography (SL)	*Theory of Knowledge
Elective‡	Elective‡	*IB Theatre (SL) Elective‡	Elective‡

‡ 1 credit of Economics and Personal Finance or IB Economics is required for graduation

(HL) Standard Level
(HL) Higher Level
* Weighted Course

IB DIPLOMA PROGRAMME COURSE OFFERINGS

GROUP 1: STUDIES IN LANGUAGE & LITERATURE

IB LANGUAGE A: LANGUAGE AND LITERATURE - ENGLISH (HL) IB 1150

Grade 11 | 1 Weighted Credit

This course offers a study of American, British, and world literature. The course offers students an introduction to the elements of rhetoric and cultural studies through study of a variety of fiction and non-fiction, poetry, and drama. The works of Huxley, Flaubert, el Saadawi, Shakespeare, Dickinson, Dostoevsky, and other selected authors are offered for in-depth study, in addition to selected poems and essays. The course focuses on rhetorical analysis through written and oral communication. The assessments encompass expository and persuasive essays, literary analysis, compare/contrast essays, close passage analysis, commentary, research, and oral assignments. Materials for internal and external assessments (both oral and written) for the IB Diploma Programme are prepared.

PREREQUISITE: Advanced English 10: AP Seminar

IB LANGUAGE A: LANGUAGE AND LITERATURE - ENGLISH (HL) IB 1160

Grade 12 | 1 Weighted Credit

This course continues the curriculum from IB Language and Literature – English (HL) in grade 11.

GROUP 2: LANGUAGE ACQUISITION

IB LANGUAGE B: FRENCH (HL) IB 51421
IB LANGUAGE B: FRENCH (SL) IB 5142

Grade 11 | 1 Weighted Credit

This course continues the study of grammar and culture of previous levels while focusing on language acquisition and development. Students explore significant themes through a variety of text types, which include both literary and non-literary selections (e.g. short stories, extracts from novels, newspapers, magazines, other media sources). Course expectations include a systematic study of grammar, text handling, oral components, and written assessments geared toward the successful completion of internal assessments and IB examinations. Particular attention is paid to intertextual analysis and writing around themes of social
relationships, communication and media, and global issues. The second year of this course is competed in 12th grade.

NOTE: At the HL level, students prepare for additional IB assessments which focus on literary interpretation.

IB LANGUAGE B: GERMAN (SL) IB 5242

Grade 11 | 1 Weighted Credit

This course continues the study of grammar and culture of previous levels while focusing on language acquisition and development. Students explore significant themes through a variety of text types, which include both literary and non-literary selections (e.g. short stories, extracts from novels, newspapers, magazines, other media sources). Course expectations include a systematic study of grammar, text handling, oral components, and written assessments geared toward the successful completion of Internal Assessments and IB examinations. Particular attention is paid to intertextual analysis and writing around themes of social
relationships, communication and media, and global issues. The second year of this course is completed in grade 12.

IB LANGUAGE B: SPANISH (HL) IB 55421
IB LANGUAGE B: SPANISH (SL) IB 5542

Grade 11 | 1 Weighted Credit

This course continues the study of grammar and culture of previous levels while focusing on language acquisition and development. Students explore significant themes through a variety of text types, which include both literary and non-literary selections (e.g. short stories, extracts from novels, newspapers, magazines, other media sources). Course expectations include a systematic study of grammar, text handling, oral components, and written assessments geared toward the successful completion of internal assessments and IB examinations. Particular attention is paid to inter-textual analysis and writing around themes of social relationships, communication and media, and global issues. The second year of this course is completed in grade 12.

NOTE: At the HL level, students prepare for additional IB assessments which focus on literary interpretation.

IB SPANISH AB INITIO 11 IB 55521

Grade 11 | 1 Weighted Credit

This language acquisition course is designed for students with no previous experience in or very little exposure to the target language. Students develop their receptive, productive, and interactive skills while learning to communicate in Spanish in familiar and unfamiliar contexts. Students develop the ability to communicate through the study of language, themes, and texts.

IB LANGUAGE B: FRENCH (HL) IB 51621
IB LANGUAGE B: FRENCH (SL) IB 5162

Grade 12 | 1 Weighted Credit

This second-year course continues the curriculum from IB Language B: French (HL) and IB Language B: French (SL) in grade 11.

NOTE: At the HL level, students prepare for additional IB assessments which focus on literary interpretation.

IB LANGUAGE B: GERMAN (SL) IB 5262

Grade 12 | 1 Weighted Credit

This second-year course continues the curriculum from IB Language B: German (SL) in grade 11.

IB LANGUAGE B: SPANISH (HL) IB 5561
IB LANGUAGE B: SPANISH (SL) IB 5562

Grade 12 | 1 Weighted Credit

This second-year course continues the curriculum from IB Language B: Spanish (HL) and IB Language B: Spanish (SL) in grade 11.

NOTE: At the HL level, students prepare for additional IB assessments which focus on literary interpretation.

IB SPANISH AB INITIO 12 IB 55522

Grade 12 | 1 Weighted Credit

This second-year course continues the curriculum from IB Spanish Ab Initio 11.

PREREQUISITES: IB Spanish Ab Initio 11

GROUP 3: INDIVIDUALS AND SOCIETIES

IB HISTORY OF THE AMERICAS (HL) IB 2360

Grade 11 | 1 Weighted Credit

This course focuses on the history of the Americas and topics in 20th century world history. United States and Latin American history are covered from the colonial period to the present. World history topics include: 20th century wars, the rise of single-party states, and the Cold War. External and internal assessments in fulfillment of the IB Diploma Programme are collected through a research study. This course also prepares students for the IB examination in Group 3, the external assessment components. The second year of this course is completed in grade 12.

PREREQUISITE: AP World History or AP European History

IB 20TH CENTURY WORLD HISTORY (HL) IB 2361

Grade 12 | 1 Weighted Credit

This course continues the curriculum from IB History of the Americas (HL) in grade 11.

PREREQUISITE: IB History of the Americas (HL)

PREREQUISITE OR CO-REQUISITE: AP US Govt. and Politics

IB GEOGRAPHY (SL) IB 2210

Grade 11 | 1 Weighted Credit

This course focuses on the interactions between individuals, societies and the physical environment in both time and space. It seeks to identify trends and patterns in these interactions and examines the processes behind them. The course integrates both physical and human geography and ensures that students acquire elements of both scientific and socio-economic methodologies. Students who do not take Group 6 Theatre Arts may take Geography as their sixth IB course.

NEW IB ECONOMICS SL IB 6120

Grades 11-12 | 1 Weighted Credit

The Diploma Programme economics course allows students to explore the models, theories and key concepts, and apply them, using empirical data, through the examination of six real-world issues. Through their own inquiry, students will be able to appreciate both the values and limitations of economic models in explaining real-world economic behavior and outcomes. By focusing on the six real-world issues through the nine key concepts (scarcity, choice, efficiency, equity, economic well-being, sustainability, change, interdependence and intervention), students of the economics course will develop the knowledge, skills, values and attitudes that will encourage them to act responsibly as global citizens.

NOTE: This course incorporates the standards of Economics and Personal Finance and fulfills the graduation requirement.

Only students enrolled in the IB program may take this course.

GROUP 4: EXPERIMENTAL SCIENCES

IB BIOLOGY (HL) IB 4380

Grade 11 | 1 Weighted Credit

This course is designed to meet the objectives of the IB Biology Programme. Throughout the course, four basic biological concepts are used that allow students to study the content at differing levels of complexity (hierarchy). The four concepts are structure and function, university versus diversity, equilibrium within systems, and evolution. Topics covered during the first year of this course include: scientific method, life processes, human physiology, genetics, ecology and plant science, and evolution. During the second year, students complete two of the following options: evolution, neurobiology and behavior, applied plant and animal science, ecology and conservation, or human physiology. The Group 4 project and the required 65 hours of lab work for internal assessment

are completed in this course. The second year of this course is completed in grade 12.

IB BIOLOGY (HL) — IB 4390

Grade 12 — 1 Weighted Credit

This course continues the curriculum from IB Biology (HL) in grade 11

PREREQUISITE: IB Biology (HL))

IB CHEMISTRY (HL) — IB 4480

Grade 11 — 1 Weighted Credit

This course is designed to meet the objectives of the IB Chemistry Programme. At the core of the course are eleven topics: quantitative chemistry, atomic structure, periodicity, bonding, energetics, kinetics, equilibrium, acids and bases, oxidation, organic chemistry, and measurement and data processing. Additional focus is given to five topics chosen from atomic structure, periodicity, bonding, energetics, kinetics, equilibrium, acids and bases, oxidation, or organic chemistry. During the second year, students complete two of the following options: modern analytical chemistry, human biochemistry, chemistry in industry and technology, medicine and drugs, environmental chemistry, food chemistry, and further organic chemistry and conservation. The Group 4 project and the required 50 hours of lab work for internal assessment are completed in this course. The second year of this course is completed in grade 12.

IB CHEMISTRY (HL) — IB 4490

Grade 12 — 1 Weighted Credit

This course continues the curriculum from IB Chemistry (HL) in grade 11.

Prerequisite: IB Chemistry (HL)

IB PHYSICS (HL) — IB 45901

Grade 11 — 1 Weighted Credit

This course is designed to meet the objectives of the IB Physics Programme and is the first year of a two-year course. Topics covered include measurement, mechanics, thermal physics, waves, electricity and magnetism, and quantum and nuclear physics. During the second year, students complete one of the following options: relativity, engineering physics, imaging, or astrophysics. Extensive laboratory investigations are part of instruction. The Group 4 project and the additional 50 hours of lab work for internal assessment are completed during this course. Instruction is geared toward the successful completion of IB Diploma requirements and IB examination preparation. The second year of this course is completed in grade 12.

IB PHYSICS (HL) — IB 45902

Grade 12 — 1 Weighted Credit

This course continues the curriculum from IB Physics (HL) in grade 11.

PREREQUISITE: IB Physics (HL)

GROUP 5: MATHEMATICS & COMPUTER SCIENCE

IB MATHEMATICS: ANALYSIS AND APPROACHES (SL) — IB 31951

Grade 11 — 1 Weighted Credit

This course is for students who enjoy developing their mathematics to become fluent in the construction of mathematical arguments and develop strong skills in mathematical thinking. They will explore real and abstract applications of these ideas, with and without technology. This course includes topics that are both traditionally part of a pre-university mathematics course (for example, functions, trigonometry, calculus) as well as topics that are amenable to investigation, conjecture and proof, for instance the study of sequences and series. There is also a strong emphasis on the ability to construct, communicate and justify correct mathematical arguments. Substantial personal research in the form of a project is a requirement of the course. Students who complete IB Math (SL) may take AP Calculus, AP Stats, Probability and Statistics, or Calculus their senior year.

NOTE: Students who are not in the IB Diploma Programme can take this course.

PREREQUISITE: AP Precalculus or DE Precalculus

IB MATHEMATICS: APPLICATIONS AND INTERPRETATION (SL) — IB 3162

Grade 11 — 1 Weighted Credit

This course emphasizes the meaning of mathematics in context by focusing on topics that are often used as applications or in mathematical modelling. To give this understanding a firm base, this course also includes topics that are traditionally part of a pre-university mathematics course such as calculus and statistics. The course makes extensive use of technology to allow students to explore and construct mathematical models. IB Math Applications will develop mathematical thinking, often in the context of a practical problem and using technology to justify conjectures. Substantial personal research in the form of a project is a requirement of the course. Students who complete IB Math Applications may take Probability & Statistics, AP Statistics, AP/DE Precalculus, Calculus, or AP Calculus AB.

NOTE: Students who are not in the IB Diploma Programme can take this course.

PREREQUISITE: Algebra II/Trigonometry

GROUP 6: THE ARTS

IB THEATRE (SL) IB 1431

Grade 11 — 1 Weighted Credit

This course engages students in critically studying theater of diverse cultures and historical periods, developing as reflective practitioners of a variety of aspects of theatrical performance, and working both independently and collaboratively to devise and produce original theatrical interpretations and/or productions. Course expectations include a variety of assignments geared toward completing IB internal and external assessments. IB assessments include a substantial research investigation, writings about practical performance aspects, and a collaborative original piece of theater.

PREREQUISITE: Students not in the full Diploma Programme: Drama II or instructor permission

THEORY OF KNOWLEDGE

IB THEORY OF KNOWLEDGE (TOK) IB 1197

Grade 12 — 2 Weighted Credits

STUDENTS NOT TAKING FULL DIPLOMA 1197

Grade 12 — 1 Weighted Credit

This course is a requirement in partial fulfillment of the IB Diploma Programme. TOK provides students with an opportunity to explore and reflect on the nature of knowledge and the process of knowing. Students reflect on the knowledge, beliefs and opinions that they have built up from their years of academic studies and their lives outside the classroom. The course is intended to be challenging and thought-provoking. IB requires that the course be concurrent over the two years of the Diploma Programme, so students in the full diploma programme are introduced to key concepts in their Junior year, outside of their existing coursework. Assessment for the course includes an essay externally graded by IB and an internal assessment moderated by IB. The TOK course also serves as the capstone for two other required elements of the IB curriculum: the Extended Essay, a 4000 word research paper started in the Junior year, and Creativity, Activity, and Service (CAS) consisting of 150 verified hours of work across the three strands as well as written reflections centering on seven learning outcomes.

NOTE: This is a required course for all IB Diploma students

NAVAL SCIENCES (THS & YHS)

HIGH SCHOOL COURSE OFFERINGS

NAVY JROTC I (NJROTC) 79130 79131

Grades 9-12 — 1 Credit

This course is a study of basic naval orientation, citizenship and government, leadership skills, wellness and fitness, and first aid. The curriculum includes two areas of study: (1) the Cadet Field Manual with an introduction to military drill, uniforms, military customs and courtesies, and (2) the Introduction to NJROTC with the history of JROTC, citizenship, and laws-authority-responsibility. Cadets will study leadership skills, behavioral sciences, motivation and relationships. Cadets will have a balanced program of instruction in wellness including building health skills through exercise, nutrition, and lifetime planning.

NOTE: Students in this course have an opportunity to take an industry certification test.

Navy JROTC I may fulfill the requirements PE 9.

NAVY JROTC II (NJROTC) 79160 79161

Grades 10-12 — 1 Credit

This course expands cadets' knowledge and experience beyond the introduction to NJROTC class. The curriculum includes two areas of study: (1) maritime history with studies of war at sea, the US Navy, strategy and tactics, and (2) the nautical sciences with studies of maritime geography, and oceanography-meteorology-astronomy. The curriculum includes: further study of the various facets of leadership, behavioral sciences, physical fitness and healthy lifestyles. Navy JROTC II and III are offered in alternating years as a combined 10th and 11th grade class.

NOTE: Students in this course have an opportunity to take an industry certification test.

Navy JROTC II may fulfill the requirements for PE 10.

PREREQUISITE: Navy JROTC I or transfer from other JROTC program

NAVY JROTC III (NJROTC) 79180 79181

Grades 11-12 — 1 Credit

This course expands cadets' knowledge and experience beyond the introduction to NJROTC class. The curriculum includes two areas of study: (1) naval knowledge with studies of sea power, national security, military law, and laws of the sea, and (2) the naval skills with studies of shipboard life, seamanship, rules of the road, and navigation. The curriculum includes: further study of the various facets of leadership, behavioral sciences, physical fitness and healthy lifestyles. Navy JROTC II and III are offered in alternating years as a combined 10th and 11th grade class.

NOTE: Students in this course have an opportunity to take an industry certification test.

PREREQUISITE: Navy JROTC II or transfer from other JROTC program

NAVY JROTC IV (NJROTC) 79190 79191

Grade 12 — 1 Credit

This course is the continued study of the more effective leadership and communication skills. The curriculum includes two areas of study: (1) leadership theory with studies of ethics and morals, and leadership case studies, and (2) the leadership laboratory with possible assignments to position of authority and responsibility of other cadets. Independent study by individual cadets in the areas of their interest in naval and leadership topics is required. Assignment to a leadership laboratory position is voluntary; however, all cadets will complete the required readings and conduct an independent study program that includes presentation to the class.

NOTE: Students in this course have an opportunity to take an industry certification test.

PREREQUISITE: Navy JROTC III, SNSI approval, or transfer from other JROTC program

NEW HORIZONS REGIONAL EDUCATION CENTER

High school students in the York County School Division who have completed applicable prerequisites are eligible to apply to take Career & Technical Education courses offered through the New Horizons Regional Education Center (NHREC). NHREC provides career and technical education services to the students of Virginia Peninsula high schools. The center currently serves high school juniors and seniors in multiple career and technical programs. programs at their Butler Farm and Woodside Lane campuses.

- *Fees may be required for some Career & Technical Education (CTE) course offerings.*
- *Student-selected verified credit may be earned for some CTE course offerings.*
- *Students may have the opportunity to take industry certification tests.*

CAREER CLUSTER: ARCHITECTURE & CONSTRUCTION

BUILDING CONSTRUCTION I, II & III 8601 8602 8603

Grades 11-12 | 3 Credits

Location: Woodside Lane

This program is foundational for achieving high-level; construction industry skills that can result in an exciting and lucrative career. With an emphasis on safety, students are taught to use hand and power tools, cut stock, apply construction math, interpret blueprints, and understand basic rigging. Students will become proficient in identifying and installing types of residential construction components to frame walls, floors, and ceilings, roofs, trusses, interior & exterior doors, windows, and stairs. Students will explore specialized areas of carpentry, such as building decks, porches, and chairs as well as energy efficiency and green technology. Exploration of licensure requirements and entrepreneurial opportunities is emphasized. All students will obtain the required Construction Industry OSHA safety credential.

PREREQUISITES: Minimum 1.5 GPA; understanding of measurements and fractions, and successful completion of Algebra I, and completion of 10th grade English with a grade of "C" or above

ELECTRICITY AND RENEWABLE ENERGY I & II 8533 8534

Grades 11-12 | 3 Credits

Location: Woodside Lane

Students develop fundamental electrical skills to help them prepare for a career in the installation, operation, maintenance, and repair of residential, commercial, and industrial systems. Students will engage in hands-on activities in a lab setting. They will be introduced to residential wiring of houses and apartments; commercial wiring of retailers, schools, businesses, and hospitals; and industrial wiring of factories. Students will also study electrical theory and mathematical problems related to electricity, apply requirements of the National Electrical Code (NEC) Book, select and install conductors, examine lighting, communication, and power systems, and work with conduit and raceways, panelboards, switchboards, grounding systems, and generators. Students will also study alternative renewable energy sources including wind generators, solar panels, & communication cabling and wiring. Because we depend so much on electricity and other energy sources for the way we live and work, careers in this field will always be in high demand.

PREREQUISITE: Minimum 1.5 GPA; completion of Algebra I and 10th grade English with a grade of "C" or above

HVAC I & II (HEATING, VENTILATION, AIR CONDITIONING & REFRIGERATION) 8503 8504

Grades 11-12 | 3 Credits

Location: Woodside Lane

In this one-year program, students are taught to professionally install, repair, and maintain the operating conditions of heating, ventilation, air conditioning, and refrigeration (HVACR) systems. Students work with piping and tubing, study the principles of heat and electricity and install duct systems. Students also explore emerging technologies, U.S. Environmental Protection Agency (EPA) regulations, energy conservation techniques, and systems with exempt and non-exempt refrigerants. Successful completion of this program will prepare students for a career as a HVACR technician.

PREREQUISITE: Minimum 1.5 GPA; mechanical aptitude, successful completion of 10th grade English, and Algebra I with a grade of "C" or above

COMMERCIAL & RESIDENTIAL PLUMBING 8551 8552

Grades 11-12 | 3 Credits

Location: Woodside Lane

This program introduces students to the plumbing profession and practices mathematical calculations required for plumbing systems. Students will read, interpret, and create drawings of piping systems. They learn to safely assemble, install, and repair pipes and fittings, and are introduced to installing fixtures of heating, water, and drainage systems, according to specifications and plumbing codes. Marine Pipefitting is taken during the 4th quarter of the course. Students will learn to read blueprints and learn ship systems. Students will obtain the skills needed to be top competitors for careers at any of the shipyards in the region.

PREREQUISITE: Minimum 1.5 GPA; completion of 10th grade English and Algebra I with a grade of "C" or above

CAREER CLUSTER: MANUFACTURING TECHNOLOGY

MECHATRONICS 8554 8555 8556

Grades 11-12 | 3 Credits

Location: Butler Farm

This is a one-year course in which students will learn and build knowledge of mechatronic systems. These systems are comprised of mechanical, electrical, and software systems, and typically include sensors feeding data to a computer/controller, which determines how to energize a motor/actuator. Mechatronics systems form the foundation of robotics, automation, and advanced manufacturing (such as 3D printing). Mechanical, electrical, and pneumatic/hydraulic systems are explored as well as relevant computer technologies. Students will apply principles related to pneumatic, electro-pneumatic, and hydraulic control circuits as well as basic digital logic and programmable logic controllers in a complex mechatronic system. This class is dual enrolled with VPCC for 20 college credits, and students may earn a College Certificate of Studies with VPCC credits transfer into the VPCC Mechanical Engineering Technology Degree.

NOTE: This program offers Dual Enrollment college credit through VPCC. Student must have minimum GPA of 3.0 to show English and math proficiency in order to receive Dual Enrollment credit; completion of Algebra II with a grade of "C" or above **or** completion of Algebra I and Geometry with a grade of "B" or above.

PREREQUISITE: Successful completion of 10th grade English; students must take and pass the VPCC Virginia math and English placement test before acceptance into this course.

VIRTUAL MACHINING AND DESIGN 8539 8540

Grades 11-12 | 3 Credits

Location: Butler Farm

This is a one-year course that provides an introduction to students to use precision tools and instruments to include operation and setup of various types of precision grinders, milling machines, and drill presses. There is also a focus on computer numerical control program writing, setup, and operation for lathe and milling machines. Students who successfully complete the Precision Machining program will be eligible for a VPCC Precision Machining Career Studies Certificate upon graduation.

NOTE: This program offers Dual Enrollment college credit through VPCC. Student must have minimum GPA of 3.0 to show English and math proficiency in order to receive Dual Enrollment credit; completion of Algebra II with a grade of "C" or above or completion of Algebra I and Geometry with a grade of "B" or above

PREREQUISITE: Successful completion of 10th grade English; students must take and pass the VPCC Virginia math and English placement test before acceptance into this course.

WELDING I & II 8672 8673

Grades 11-12 | 3 Credits Per Year

Location: Butler Farm

This is a two-year, three-period course in which students learn to use shielded metal arc welding equipment to weld surface, fillet and prove welds in the flat, horizontal, vertical, and overhead positions. This course employs oxyacetylene equipment for cutting metal as well as plasma arc. The TIG and MIG welding processes are also covered.

Expectations: All students in welding are required to do physical labor related to welding. Welding is a construction trade and demands physical involvement.

Expenses: Students are required to provide the welding kit and the clothes in which they weld. Boots with steel toes, long sleeve shirts, and long pants are the required attire.

PREREQUISITE: Minimum 2.0 GPA; good hand-eye coordination, vision, and manual dexterity

CAREER CLUSTER: HEALTH SCIENCE

DENTAL CAREERS I & II 8328 8329

Grades 11-12 | 3 Credits Per Year

Location: Butler Farm

Students in this two-year program are preparing to perform all the tasks of a dental assistant. These tasks include: exposing, processing, and mounting X-rays, and preparing materials for various procedures including impressions, removing sutures, placing topical anesthetics, and making diagnostic study models for alginate impressions. This program also gives students a foundation to pursue a Dental Hygienist post-secondary degree through a two or four-year college or university.

PREREQUISITE: Minimum 3.0 GPA; must have good hand/eye coordination and manual dexterity, completion of Biology I with a grade of "C" or above. Mandatory clinical experience for all Dental II students. Clinical experience may require drug testing and a Covid-19 vaccination and /or testing.

MEDICAL ASSISTANT 8345 8346

Grades 11-12 | 3 Credits

Location: Butler Farm

This one-year introductory program is designed to give an overview of the various components of the medical assistants' professional responsibilities. This course is intended for students who are preparing for many of the exciting, challenging, and rewarding careers in the healthcare field. Students will be prepared to assist physicians by performing functions related to both business administration and clinical duties of a medical office. Clinical instruction includes taking vital signs, the preparation of the patient for examination and treatment, routine laboratory procedures, and the use of the ECG machine. These opportunities require people who want to operate in a high-tech fluid environment filled with constant challenges and service commitments.

PREREQUISITE: Minimum 3.0 GPA, completion of 10th grade English with a grade of "C" or above, and completion of Biology I with a grade of "B" or above. Students enrolled in a Governor's STEM Health Academy will be given priority within their school division for admission to this program. Students must be 17 years old before April 30th to be eligible to take the national clinical medical assistant certification exam. Current TB skin test results & a copy of immunizations must be on file with New Horizons no later than Sept. 30th. Hepatitis B vaccination is required and a flu shot is required by Oct. 31st. Clinical experience may require drug testing and a Covid-19 vaccination and/or testing. The American Heart Association CPR Basic Life Support (BLS) course is required.

NURSE AIDE, PATIENT CARE TECHNICIAN & HOME HEALTH AIDE 8303 8360 8364

Grades 11-12 | 3 Credits

Location: Butler Farm

This one-year course integrates Nurse Aide, Patient Care Technician, and Home Health Aide programs to prepare students for entry-level healthcare careers. Students begin with the Nurse Aide foundation, learning essential skills in patient care, communication, infection control, and vital signs. The curriculum then expands to Patient Care Technician competencies, including Electrocardiogram (ECGs), phlebotomy, lab procedures, and basic anatomy and physiology. The Home Health Aide portion focuses on providing personal care and maintaining a safe, supportive environment for clients in home and community settings. Hands-on clinical experience, work-based learning, and participation in Career and Technical Student Organizations (CTSO) develop students' technical and leadership skills. Successful completion prepares students for certification exams such as the Certified Nurse Aide and for employment or further study in health science fields.

PREREQUISITE: Students must have a desire to work with people, be in good physical condition, have good hand/eye coordination and manual dexterity; must be able to lift 50 pounds to safely perform their duties; minimum 3.0 GPA; students must have completed Biology I with a grade of "B" orabove; results of a current (good for one year) TB skin test must be on file with New Horizons CTEC no later than October 30th. Students must pass a general safety rules test with 100% accuracy prior to attending clinical training. Clinical experience may require drug testing and a Covid-19 vaccination and/or testing.

PHYSICAL AND OCCUPATIONAL THERAPY I & II 8365 8366

Grades 11-12 | 3 Credits

Location: Butler Farm

This one-year course is designed to provide an introduction to the professions of physical and occupational therapy. Students explore the principles and practices of therapists in the health care industry and participate in clinical observation under the direct

supervision of a licensed physical and/or occupational therapist. Clinical skills in the area of physical therapy and occupational therapy enable students to gain understanding of rehabilitative care, which is practiced throughout the continuum of care and across the life span of individuals. After successful completion of this course, students may seek higher education for specific degrees/licensure in a variety of fields such as physical therapy, occupational therapy, speech therapy, sports medicine, athletic training, chiropractic medicine, biology, or exercise science.

PREREQUISITE: Minimum 3.0 GPA; completion of Biology I and Algebra I with a grade of "B" or above. Work-based Learning experience may require drug testing & a Covid-19 vaccination and/or testing.

VETERINARY SCIENCE 8088 8089

Grades 11-12 | 3 Credits

Location: Woodside Lane

This one-year course prepares students to respect and safely handle and treat classroom animals. The students come to understand the various breeds and species of animals and are able to identify basic requirements for veterinary care and general health maintenance. The students receive training in handling, grooming, feeding and properly medicating a variety of animals. In addition, animal nutrition, disease and basic first aid are explored. Students also perform the routine technical, maintenance and office duties associated with veterinary work.

PREREQUISITE: Minimum 3.0 GPA; desire to work with people, good physical condition, enjoy handling and caring for animals, manual dexterity; must be able to lift 50 pounds to safely perform their duties; completion of 10th grade English, Biology I and Algebra I with a grade of "C" or above.

PHARMACY TECHNICIAN 8305 8306

Grade 12 | 3 Credits

Location: Woodside Lane

Those in the industry on the Virginia Peninsula have identified Pharmacy Technician as their number one area of employment need. In the next several years, job growth for pharmacy technicians will be twice the average for all occupations in Virginia. This one-year course will provide students an in-depth exposure to the pharmaceutical industry. It will assist students in becoming skilled in preparing/dispensing prescriptions, compounding medications, preparing intravenous medications, stocking medications and repackaging medication. Students will be prepared to take the ExCPT Examination which is recognized nationally.

NOTE: Clinical experience may require certain vaccinations; a 12-panel drug test is required; a criminal background check is required for all students 18 and older to participate in externships.

PREREQUISITE: Minimum 3.0 GPA; completion of Algebra I and 10th grade English with a grade of "B" or above

CAREER CLUSTER: HUMAN SERVICES

COSMETOLOGY I & II 8745 8746

Grades 11-12 | 3 Credits Per Year

Location: Butler Farm/Woodside Lane

Upon successful completion of this two-year program, students are expected to take the Commonwealth of VA State Cosmetology examination in order to become licensed practitioners. Students gain practical experience working in the cosmetology clinic/lab/salon on several platforms. Instruction includes professional ethics and business skills; safety and health; hair cutting, shaping, and analysis; hair and scalp diseases and disorders; shampoos, rinses, conditioners and treatments; anatomy and physiology and chemical texture services; hair styling, coloring, and lightening; nail and skincare.

PREREQUISITE: Must have minimum 2.0 GPA, completion of 10th grade English with a grade of "C" or above, ability to multi-task, good social and communication skills, creativity and artistic ability, customer service skills. Must have completed or currently be enrolled in biology or chemistry. Must meet Department of Virginia, Department of Professional and Occupational Regulation, and school attendance requirements.

CULINARY ARTS I & II 8275 8276

Grades 11-12 | 3 Credits Per Year

Location: Woodside Lane

This two-year course prepares students to enter employment in food service occupations. Instruction includes: sanitation, nutrition, food preparation, purchasing, and inventory control in addition to food presentation and service. Students plan menus, prepare food and use a variety of kitchen equipment.

PREREQUISITE: Minimum 2.0 GPA, must possess adaptability and the desire to work with people, have the ability to accurately perform measurements, and work with whole numbers, decimals and fractional conversions, completion of 10th grade English with a grade of "C" or above.

EARLY CHILDHOOD EDUCATION 8234 8285

Grades 11-12 | 3 Credits

Location: Woodside Lane

This is a one-year program that prepares students to be employed in the field of child care. Students who are interested in working professionally with young children (e.g. medical, social services, and education) may enroll in the Early Childhood Education (ECE) one-year program. Critical thinking, practical problem-solving, and entrepreneurship opportunities within the field of early childhood education are emphasized. Practice experiences (e.g. on-site lab, local daycare centers, elementary schools, and other institutions) under the supervision of the instructor are required. Students are required to have a current Tuberculin skin test.

NOTE: This program offers dual enrollment college credit through VPCC. Student must have minimum 2.0 GPA to show English and math proficiency in order to receive dual enrollment credit.

PREREQUISITE: Minimum 2.0 GPA; completion of 10th grade English with a grade of "C" or above, must have a current Tuberculin skin test, genuine desire to work with young children.

CAREER CLUSTER: INFORMATION TECHNOLOGY

CYBERSECURITY NETWORK ENGINEERING 8542 8543 8544 8545

Grades 11-12 | 3 Credits Per Year

Location: Woodside Lane

This is a rigorous industry-designed two-year course taught by a CISCO certified instructor in a highly technical networking lab. The first year qualifies the student to take the Certiport IT Specialist – Networking exam. The second year offers the potential for students to take the CISCO CCNA exam through training in configuring and troubleshooting routers, switches, and network devices. Students in this program have the opportunity to participate in the Electronic Sports (ESPORTS) team. This team uses video games for competition requiring strategy, teamwork, leadership, communication, and the skills to win.

NOTE: This program offers dual enrollment college credit through VPCC. Student must have minimum 3.0 GPA to show English and math proficiency in order to receive dual enrollment credit, completion of Algebra II with a grade of "C" or above **or** completed Algebra I and Geometry with a grade of "B" or above.

NOTE: This one-year course meets the sequential elective requirement.

PREREQUISITES: Students enrolling in cybersecurity network engineering must have completed an advanced Math course above Algebra I with a grade of "B" or above, and have successfully completed 10th grade English.

COMPUTER PROGRAMMING & AI FUNDAMENTALS 6640 6641

Grades 11-12 | 3 Credits

Location: Woodside Lane

This industry-designed course will allow students to focus on computer science and apply key programming concepts, algorithmic procedures, programming languages, and web based applications. In the Advanced Programming course, students will use object-oriented programming to design and develop database and multimedia programs and applications. The class is dual enrolled for 14 VPCC credits.

NOTE: This program offers dual enrollment college credit through VPCC. Student must have minimum GPA of 3.0 to show English and math proficiency in order to receive dual enrollment credit; completion of Algebra II with a grade of "C" or above **or** completion of Algebra I and Geometry with a "B" or above.

This one-year course meets the sequential elective requirement.

CYBERSECURITY SYSTEMS TECHNOLOGY 8628 8629

Grades 11-12 | 3 Credits

Location: Woodside Lane

Students enter the world of computer technology and gain practical experience in assembling a computer system. Students will install, configure, and secure various operating systems. Students will troubleshoot computers and peripherals and use system tools and diagnostic software. They develop skills in computer networking and resource sharing. In addition, students explore the relationships between internal and external computer components. Students will train in procedures for optimizing and troubleshooting concepts for computer systems, subsystems, and networks. Students will gain a basic understanding of emerging technologies including unified communications, mobile, cloud, and virtualization technologies. This one-year course prepares students for postsecondary education and training and a successful career in information technology.

NOTE: This one-year course meets the sequential elective requirement.

PREREQUISITE: Minimum 2.5 GPA; completion of a computer applications course; completion of Algebra I with a grade of "C" or better, ability to read and comprehend complex technological resources and materials.

CYBERSECURITY OPERATIONS 6304 6306

Grades 11-12 | 3 Credits

Location: Butler Farm

Cybersecurity Operations is designed to teach computer and network administration and security. Students learn cybersecurity concepts, including the practice of protecting systems, networks, and programs from digital attacks. Cybersecurity is defined as the steps and processes taken to protect networks, devices, and programs, and data from unauthorized access that can result in theft or damage. Students learn to establish, implement, and maintain security networks. 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.

PREREQUISITE: Minimum 2.5 GPA; Students enrolling in Cybersecurity Operations must have completed both a computer applications course and Algebra I with a grade of "C" or above.

CAREER CLUSTER: PUBLIC SERVICE

CRIMINAL JUSTICE 8702 8703

Grades 11-12 | 3 Credits

Location: Butler Farm/Woodside Lane

Students in this one-year program are preparing for many of the exciting, challenging, and rewarding careers in the criminal justice field. These opportunities require people who want to operate in both high energy and high-tech fluid environments filled with constant challenges and service commitments. Students will study the history of and types of law enforcement requirements as they gain an understanding of local, state, and federal law enforcement departments and jurisdictions. Students will learn about and use some of the newest technology in the criminal justice field as they undertake and engage in crime scene investigations. Some of the finest local state, federal, and private sector industry professionals provide classroom presentations and hands-on training opportunities. Students will also learn about the court system and corrections.

NOTE: Under current regulations, an individual must be 21 years old to be a police officer. The cost of materials and certification is the responsibility of the student.

This program offers dual enrollment college credit through VPCC. Student must have minimum GPA of 2.0 to show English and math proficiency in order to receive dual enrollment credit.

PREREQUISITE: Completion of 10th grade English with a grade of "C" or above

EMERGENCY MEDICAL TECHNICIAN 8333 8334

Grades 11-12 | 3 Credits

Location: Butler Farm

Emergency Medical Technicians are part of one of three public safety divisions (EMS, Fire, and Law Enforcement). Their job includes the daily routine of dealing with crisis, trauma, hazardous materials, illness, injuries and the training to handle mass casualties, disaster management, and terrorism awareness. Although the job can be stressful, EMT's and Paramedics enjoy the challenge and excitement of their jobs and view them as an opportunity to make a real difference. Juniors who successfully complete EMT may be invited to return as a senior for EMT II (#8335). There are very limited number of EMT II seats.

NOTE: Additional requirements for the state exam include: not having been convicted of a felony involving any sexual crime and no convictions of any other act which is a felony under the laws of this state or the United States, except that such felony is eligible for certification if within five (5) years

after date of final release no additional felonies have been committed. Students must have no physical or mental impairment that would render them unable to perform all practical skills required. Expenses for this course include: insurance, supplies, and exam. Clinical experience may require drug testing and a Covid-19 vaccination and/or testing.

PREREQUISITE: Minimum 3.0 GPA, successful completion of 10th grade English

FIRE FIGHTER 8705 8706

Grades 11-12 | 3 Credits

Location: Butler Farm/Woodside Lane

This one-year Fire Science program introduces students to the exciting field of Fire Fighting. Students are supervised closely by qualified personnel. Policies & and procedures are designed to ensure adequate levels of safety while allowing for flexibility to utilize independent judgment based on the level of training. Any student who jeopardizes the safety of others will be removed from the program. Students are required to attend some training sessions after school and some weekends. Attendance at these sessions is MANDATORY for those pursuing the firefighter certification.

NOTE: This program offers an opportunity for a Fire Fighter apprenticeship with the completion of EMT.

PREREQUISITE: Minimum 2.5 GPA; at least 16 years of age on first day of class, and must have completed 10th grade English with a grade of "C" or above. Completion of physical exam using a NHREC form by August 1st. Students not recommended entry by a physician will not be able to enter this program. Required to volunteer OJT hours at a fire station in the spring semester.

CAREER CLUSTER: TRANSPORTATION & LOGISTICS

COLLISION REPAIR TECHNOLOGY I, II, & III 8676 8677 8678

Grades 11-12 | 3 Credits

Location: Butler Farm

In the global automobile collision repair industry, there is a growing demand for qualified auto body technicians. In this one-year course, students are taught damage analysis, estimating, customer service, non-structural analysis, damage repair, welding, painting and refinishing techniques that include surface preparation, spray gun and related equipment operation, paint mixing, matching, applying, and final vehicle detailing. Students also work with a variety of materials, using metal finishing and body filling techniques to prepare surfaces and repair panels. Students who successfully complete this program may be eligible to take the ASE Student Certification examinations. Instructor recommendations are required for students to return to Auto Body Technology III. Selected students may be eligible for work experience at local repair facilities.

NOTE**:** This course is not recommended for individuals with respiratory or allergy problems. Students must wear uniforms, safety glasses, leather work shoes, and other safety equipment required by the program.

PREREQUISITE: Minimum 1.5 GPA;, completion of 10th grade English with a grade of "C" or above, be able to analyze and problem solve, demonstrate artistic ability

AUTOMOTIVE TECHNOLOGY I & II 8506 8507

Grades 11-12 | 3 Credits Per Year

Location: Butler Farm

In this two-year program, students explore, handle, and perform basic functions in engine repair, automatic transmission and transaxle, manual drive trains and axles, suspension and steering systems, and brakes. Second-year students will build up their basic knowledge and learn about electrical, electronic, and HVAC systems in automobiles. Students who successfully complete the program may be eligible to take the ASE Student Certification examination. The ASE Student Certification is the first step in building a career as a service professional in the automotive industry. Summer mentorship opportunities are available in this program.

NOTE: This program offers dual enrollment college credit through VPCC. Student must have a 2.0 GPA if seeking dual enrollment credit.

Must possess a driver's license or permit. OJT required in 2nd year of the program. Completion of Auto Tech I with a grade of "C" or above is required to return for Auto Tech II.

PREREQUISITE: Completion of 10th grade English with a grade of "C" or above.

MARINE SERVICE TECHNOLOGY I & II 8750 8751

Grades 11-12 | 3 Credits

Location: Butler Farm

In this one-year introduction to service and repair of watercraft and marina operations, students learn marine trade skills in areas including shop and boating safety, inboard and outboard systems, carpentry, fiberglass construction and repair, electricity, vessel storage/handling, and tools and equipment operation.

PREREQUISITE: Minimum 1.5 GPA; demonstrate a high degree of manual & physical dexterity; read and interpret service manuals and publications; basic water safety; should know how to swim; work with chemicals & tolerate exposure to dust and/or odors; work in an atmosphere of loud noise & changes in temperature; spatial awareness & the ability to multi-task; general math skills – measurements, conversions, ratios, addition & subtraction.

NEW SMALL ENGINE TECHNOLOGY I & II 8725 8726

Grade 12

The Small Engine Technology I & II course introduces students to the principles, skills, and safety practices required to service and repair a variety of small engines commonly found in outdoor power equipment. Students learn engine theory, troubleshooting, precision measurement, tool use, and maintenance procedures while gaining hands-on experience disassembling, inspecting, and reassembling engines. This course emphasizes industry-aligned practices, including reading technical manuals, following diagnostic processes, and applying mechanical reasoning to real equipment. After completing Marine Service Technology I & II and Small Engine Technology I & II, students will refine their repair techniques, deepen their understanding of fuel, ignition, electrical, and lubrication systems, and practice workplace skills that prepare them for entry-level technician roles or further training in power equipment, transportation, and mechanical technology fields.

NOTE: This course is only offered to 2nd year Marine students with an instructor recommendation.

DRONES AND AVIATION 8910 8912

Grades 11-12 3 Credits

Location: Woodside Lane

This one-year Unmanned Aircraft Systems program prepares students to fly drones under the Federal Aviation Administration's (FAA) Part 107 guidelines. Students get an overview of the national airspace system, FAA regulations, and the design and operation of small drones. Students monitor the weather, address the loading and performance of drones, collect data, and coordinate flight operation logistics. Students will use the Zephyr simulation software to practice flying. The course will be dual-enrolled with VPCC and offer 18 college-level credits and 2 industry-level credentials.

NOTE: The student must possess a minimum GPA of 2.0 to show English & math proficiency in order to receive dual enrollment credit.

SCHOOL OF THE ARTS: MIDDLE SCHOOL ARTS MAGNET

The middle school arts magnet (mSAM) is a school-wide program at Queens Lake Middle School, offering multiple arts electives for students in grades 6-8.

DANCE ARTS 6 — 93022

Grade 6 — Year

This introductory dance arts course promotes dance as a healthy lifestyle choice and as an art form. Content focuses on the concepts of fitness and wellness utilizing dance as a cardiorespiratory activity. Students explore dance through creative movement, improvisation, the basics of choreography, dance terminology, and a variety of dance forms. Each dance form provides exposure to the diversity of style, historical, and cultural aspects of the dance arts. This course replaces Physical Education/Lifetime Fitness 6 for students enrolled in mSAM.

DANCE ARTS 7 — 93023

Grade 7 — Year

This dance arts course expands exploration of dance in its many forms and provides students with exposure to the diversity of the dance arts. Content focuses on the concepts of fitness and wellness, utilizing dance as a cardiorespiratory activity. Creative movement, dance terminology, the mechanics of movement, the basics of choreography, and improvisation augment student appreciation of each dance form's historical and cultural contribution. This course replaces Physical Education/Lifetime Fitness 7 for students enrolled in mSAM.

DANCE ARTS 8 — 93024

Grade 8 — Year

This dance arts course continues to provide in-depth study of dance in its many forms and expands students' exposure to the diversity of the dance arts. Content focuses on the concepts of fitness and wellness utilizing dance as a cardiorespiratory activity. Applications of creative movement, dance terminology, the mechanics of movement, choreography, and improvisation enhance student appreciation of each dance form's historical and cultural contribution. This course replaces Physical Education/Lifetime Fitness 8 for students enrolled in mSAM.

THEATRE ARTS 6 — 13902

Grade 6 — Semester/ Year

This interdisciplinary course explores the theatre from the perspectives of history, culture, genres, performance, and the role of theatre arts in contemporary society. Students gain in-depth knowledge of ensemble, non-verbal and verbal communication skills, and the role of the audience. Content includes classical and modern drama, critical thinking, speaking skills, and oral presentation. Students participate in a variety of theatrical opportunities.

THEATRE ARTS 7 — 13903

Grade 7 — Semester/ Year

This interdisciplinary course expands on student exploration of the theatre from the perspectives of history, culture, genres, performance, and the role of theatre arts in contemporary society. Students master skills necessary for in-depth play interpretation, study elements of theatrical production and design, and learn to differentiate between the meaningful and the mediocre in the arts as an audience member. Critical thinking, speaking skills, and oral presentation are emphasized.

THEATRE ARTS 8 — 13904

Grade 8 — Semester/ Year

This interdisciplinary course continues to provide student investigation of the theatre from the perspectives of history, culture, genres, performance, and the role of theatre arts in contemporary society. Students apply knowledge and skills through participation in various theatrical venues with an emphasis on the role of the production team (e.g., designers, performer, and technical support staff). Critical thinking, speaking skills, and oral presentation are emphasized.

VISUAL ARTS 6 — 12901

Grade 6 — Quarter

This course is designed to stimulate creativity and personal development through the exploration of a wide range of activities including painting, drawing, sculpture, and crafts. Students develop artistic skills and an aesthetic appreciation of the arts of various cultures. Students study the principles and elements of design in a wide range of media.

VISUAL ARTS 7 — 12902

Grade 7 — Semester

This course is designed to build upon students' creativity and personal development through the exploration of a wide range of activities including painting, drawing, sculpture, and crafts. Students extend their artistic skills and appreciation of the arts of

various cultures. Students study the principles and elements of design in a wide range of media.

VISUAL ARTS 8 — 12903

Grade 8 — Semester

This course is designed to build upon students' creativity and personal development through the exploration of a wide range of activities including painting, drawing, sculpture, and crafts. Students extend their artistic skills and appreciation of the arts of various cultures. Students study the principles and elements of design in a wide range of media.

SCHOOL OF THE ARTS

York County School of the Arts (SOA) provides high school students with an enriched and challenging fine arts educational opportunity that emphasizes academic growth and artistic development.

LITERARY ARTS COURSE OFFERINGS

ADVANCED WRITER'S WORKSHOP I 117701

Grades 9-12 | 1 Weighted Credit

Advanced Writers Workshop I is a humanities-focused advanced course of studies for students with a demonstrated interest in developing pre-professional writing skills. Writing activities explore and engage with canonically famous works in all artistic genres—including music, visual art, theatre, and dance—as stimuli for creative expression. This course also provides writing and research activities that contextualize and engage with SOA productions, guest artist presentations, and field trips (dynamically driven by each year's SOA events calendar). Annual participation in publications, performances, regional contests, and other opportunities outside SOA connects students to a diverse community of writers and artists as they prepare for collegiate and professional writing endeavors.

NOTE: English Elective

PREREQUISITES: SOA audition, including reading comprehension assessment, writing sample, and interview with SOA staff

ADVANCED WRITER'S WORKSHOP II 117702

Grades 10-12 | 1 Weighted Credit

Advanced Writers Workshop II is a humanities-focused advanced course of studies for students interested in further developing and honing pre-professional writing skills. Writing activities that engage with canonically famous works in all artistic genres are presented on a four-year rotation so students may repeat this course if they wish to experience a more diverse body of artistic expression from different cultures and time periods. From year to year, course content also changes by providing writing and research activities that contextualize and engage with activities dynamically driven by the SOA events calendar. Writers are encouraged to expand their horizons and challenge themselves to develop original work that builds on their work from the previous year(s) as they annually participate in a variety of publications, performances, and contests.

NOTE: English Elective

PREREQUISITE: completion of Advanced Writers Workshop I with overall 2.5 GPA or instructor permission

SCRIPT WRITING FOR STAGE AND SCREEN 117750

Grades 10-12 | .5 Credit

The purpose of the course is to learn about stage script and screenplay structure, analyze dramatic strategies in film and television, learn and apply correct script form, and creatively engage in the various stages of original scriptwriting. Each semester culminates in a final completed script with the opportunity to be considered for a stage production.

NOTE: English Elective

PREREQUISITE: Application & Audition

THEATRE ARTS COURSE OFFERINGS

ADVANCED THEATRE ARTS I 144010

Grades 9- 12 | 1 Weighted Credit

This interdisciplinary course is designed for students with demonstrated acting ability who also exhibit an awareness that theatre is a discipline requiring diligent study and application. The course emphasizes the interdisciplinary nature of the fine arts; theatre as a reflection of social, political, and economic conditions; play analysis for interpretation, character development, and production values; acting theory; vocal and physical skills and techniques; and practical application of theory, skills, and techniques.

NOTE: Fine Arts Elective

PREREQUISITE: Application & Audition

ADVANCED THEATRE ARTS II 144011

Grades 10-12 | 1 Weighted Credit

This interdisciplinary course is designed to focus on acting styles for period plays and the historical and cultural perspective needed to perform period plays. The course is an in-depth, broadening continuation of the Advanced Theatre Arts I course and continues to emphasize the interdisciplinary nature of the fine arts; theatre as a reflection of social, political, and economic conditions; play analysis for interpretation, character development, and production values; acting theory; vocal and physical skills and techniques; and practical application of theory, skills, and techniques.

NOTE: Fine Arts Elective

PREREQUISITE: Advanced Theatre Arts I

ADVANCED THEATRE ARTS III 144012

Grades 11-12 1 Weighted Credit

This course further develops the skills acquired in Advanced Theatre Arts II and continues to emphasize the interdisciplinary nature of the fine arts. Particular focus is given to analysis and interpretation of modern and contemporary plays. Practical application of theory and process are provided through specialized field experiences and/or community service.

NOTE: Fine Arts Elective

PREREQUISITE: Advanced Theatre Arts II

ADVANCED THEATRE ARTS IV 144013

Grade 12 1 Weighted Credit

This course continues to emphasize the interdisciplinary nature of the fine arts and focuses on selected components of performance to meet individual needs. The course provides individual and/or group projects, which may include: directing, design, acting, and creative dramatics. Working field experiences may be provided, with instructor approval, in cooperation with selected theatre groups and/or schools.

NOTE: Fine Arts Elective

PREREQUISITE: Advanced Theatre Arts III

ADVANCED TECHNICAL THEATRE I 1434

Grades 9-12 1 Weighted Credit

Through this first-year course that emphasizes safety and procedures, students interested in backstage work focus on the basic elements of design and the technical elements of theatre production. Students gain practical experience for working as technicians in a lab theatre on set construction, scenery painting, and lighting. After-school supervised hours are required.

NOTE: Fine Arts Elective

PREREQUISITE: Application & Audition

ADVANCED TECHNICAL THEATRE II 1435

Grades 10-12 1 Weighted Credit

This course is designed for students interested in backstage work and focuses on training students to be theatre technicians. The focus of this level II course is the enhancement of techniques used to create set, lighting, sound, props, and costumes. In addition, this course introduces students to basic elements of design. This course also includes reading plays, exploring the historical changes that have occurred in theatrical design, and studying the contributions of important designers. The course provides information and experience needed by technicians to function responsibly and efficiently as part of a collaborative, theatrical team. Students must maintain a passing grade in ALL courses to remain in this program as well as to remain in each performance. After- school, supervised hours are required.

NOTE*:* Fine Arts Elective

PREREQUISITE: Advanced Technical Theatre I

ADVANCED TECHNICAL THEATRE III 1436

Grades 10-12 1 Weighted Credit

The focus of this level III course is the refinement of concepts and skills in theatre design and technology in areas of set, lighting, sound, props, costumes, and makeup. Through script analysis and studying artistic intent, students investigate design styles and explore the creative process which includes research, conceptualization, and implementation. Students continue to cultivate their artistic abilities and choices through hands-on projects. During this course, students also gain exposure and experience in leadership positions with the rehearsal and production process of a performance. Students will create and maintain a technical theatre portfolio and demonstrate growth in design and production. Students must maintain a passing grade in all courses to remain in this program as well as to remain in each performance. After-school, supervised hours are required. (may be continued with instructor recommendation and a minimum gpa of 2.5).

NOTE: Fine Arts Elective

PREREQUISITE: Advanced Technical Theatre II

ADVANCED TECHNICAL THEATRE IV 1437

Grades 12 1 Weighted Credit

The focus of this level IV course is to elevate personal voice and vision through the design process in theatre. Through research and inquiry of theatre styles of personal interests, students expand and refine creative choices for design and production. They will develop evaluation skills through critique of personal and paperwork. Students will learn specific, advanced techniques for theatrical design and technology. The course provides information and experience needed by technicians to function responsibly and efficiently in a major leadership role in a theatrical team through communication, problem solving, and collaboration to achieve unified productions. Students will create and maintain a technical theatre portfolio to demonstrate growth in design and production. Students must maintain a passing grade in all courses to remain in this program as well as to remain in each performance. After-school supervised hours are required.

PREREQUISITE: Advanced Technical Theatre IV

THEATRE WORKPLACE EXPERIENCE 144017

Grade 12 1 Credit

Theater Workplace Experience. This course provides students with hands-on exposure to various disciplines within drama and technical theater, such as

performance, directing, stage management, design, and production. Goals are set collaboratively, by the student, teacher and employer. The experience is enriched with classroom-based activities ranging from further study of industry concepts to discussions of real-world tasks encountered on the job-ensuring that students gain both practical skills and broader professional insights.

NOTE: Fine Arts Credit
Students are responsible for their own transportation to and from the off campus workplace experience location.

PREREQUISITES: Advanced Theatre Arts III or Advanced Technical Theatre Arts III, Application and interview required.

IMPROVISATION COMEDY/ SKETCH COMEDY 1448

Grades 9-12 | 1 Credit

This course is an introduction to improvisational performance and sketch comedy writing. The first semester is focused on the building blocks of scenic improvisation, improvising scenes, character work, improvisation, and improvisation in performance. The second semester uses scenic improvisation to develop written sketch comedy. Students will learn basic scene structure, character development, establish action, and learn the styles and genres of comedy. Weekly writing assignments and in-class exercises generate material and establish a regular writing schedule. Each semester culminates in performance.

NOTE: If space is available, non-SOA students may enroll in this course

DANCE COURSE OFFERINGS

DANCE ARTS I 9311

Grades 9-12 | 1 Credit

This dance course focuses on techniques and skills necessary to attain performance level, with emphasis on interpreting dance in an emotional context. The interdisciplinary focus includes a survey of dance classics that allow for study of visual arts and music related to the time period of the dance under study. The course requires reading and written work as well as practical dance effort.

NOTE: Fine Arts Elective

PREREQUISITE: Application & Audition

DANCE ARTS II 9313

Grades 10-12 | 1 Credit

This dance course is a natural progression from Dance Arts I. The focus of the course is the enhancement and refinement of dance skills and techniques. In addition, the course addresses the more technical aspects of dance performance, such as basic principles in lighting, set, sound, and costume design, as they relate to dance performance. Reading, written assignments, and dance performances are required components of this course.

NOTE: Fine Arts Elective

PREREQUISITE: Dance Arts I

ADVANCED DANCE ARTS III 9316

Grades 11-12 | 1 Weighted Credit

This dance course is a natural progression from Dance Arts II. The focus of the course is choreography composition to include staging, lighting design, costume design and impact of performance. During this course, students also gain exposure to leadership positions within the rehearsal and impact of performance. Reading, written assignments, and dance performances are required components of this course.
NOTE: Fine Arts Elective

PREREQUISITE: Dance Arts II

ADVANCED DANCE ARTS IV 93151

Grade 12 | 1 Weighted Credit

The focus of this level IV course is mechanics of choreography phrasing. Choreography composition is dissected into elements of timing, imagery, and phrasing overlap. Advanced dance techniques are introduced into the training. During this course students also gain exposure to leadership positions within the rehearsal and production processes.

NOTE: Fine Arts Elective

PREREQUISITE: Dance Arts III

DANCE WORKPLACE EXPERIENCE 93153

Grade 12 | 1 Credit

This course provides students practical exposure to dance-related fields through on-site work experience. In collaboration with the teacher and employer, students set individual goals to develop professional skills and deepen their understanding of the dance industry. Participants will engage in real-world tasks and responsibilities under professional supervision. Classroom-based activities and discussion further enhance learning by exploring industry concepts reflecting on workplace experiences and connecting practice to broader educational objectives.

NOTE: Fine Arts Elective, Students are responsible for their own transportation to and from the off campus workplace experience location.

PREREQUISITES: Dance Arts III, Application and Interview required.

MUSIC COURSE OFFERINGS

MUSIC PERFORMANCE LAB 1449

Grades 10-12 1 Credit

The Music Performance Lab is an ensemble offering enrichment opportunities for experienced musicians, including those who play an instrument outside of school. Students will explore various music genres and develop their listening and performance skills through collaboration. The group supports SOA events with live music and is open to instrumentalists and vocalists. This is an additional music elective course, not a replacement for school-based music courses. To enroll, students must be actively participating in their zoned school music programs (Band, Chorus). Students who are not enrolled in a music performance course at their high school may be considered for enrollment if they participate in private lessons, community music ensembles, or choirs.

NOTE: Fine Arts Elective, Repeatable for credit

PREREQUISITES: Symphonic Band, Wind Ensemble, Choral Director recommendation, and Audition

DUAL ENROLLMENT FUNDAMENTALS OF MUSIC DE-MUS101

Grades 11-12 .5 Weighted Credit

MUS101- Provides exercises leading to knowledge and skill in the rudiments of music. Includes rhythmic notation as well as scales, keys, and intervals along with exercises in sight reading and ear training.

NOTE: This course is Dual Enrolled with Virginia Peninsula Community College (VPCC). Students must meet admission and course placement requirements of the college. Requirements for admission include the completion of an application for admission to the college and demonstration of readiness for college through Grade Point Average (GPA), placement testing or eligible assessments.

DUAL ENROLLMENT MUSIC APPRECIATION DE-MUS121

Grades 11-12 .5 Weighted Credit

MUS 121- 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

NOTE: This course is Dual Enrolled with Virginia Peninsula Community College (VPCC). Students must meet admission and course placement requirements of the college. Requirements for admission include the completion of an application for admission to the college and demonstration of readiness for college through Grade Point Average (GPA), placement testing or eligible assessments.

MUSIC WORKPLACE EXPERIENCE 145012

Grade 12 1 Credit

This course offers students real-world exposure to music-related fields through supervised work experience. In collaboration with the teacher and employer, students set individualized goals. Classroom-based activities further enhance learning by exploring the broader context of the music industry, providing opportunities to reflect on workplace experiences and develop industry-relevant skills.

NOTE: Fine Arts Credit

Students are responsible for their own transportation to and from the off campus workplace experience location

PREREQUISITES: SOA Application and interview

SPORTS & ENTERTAINMENT MARKETING 81752

Grades 10-12 1 Credit

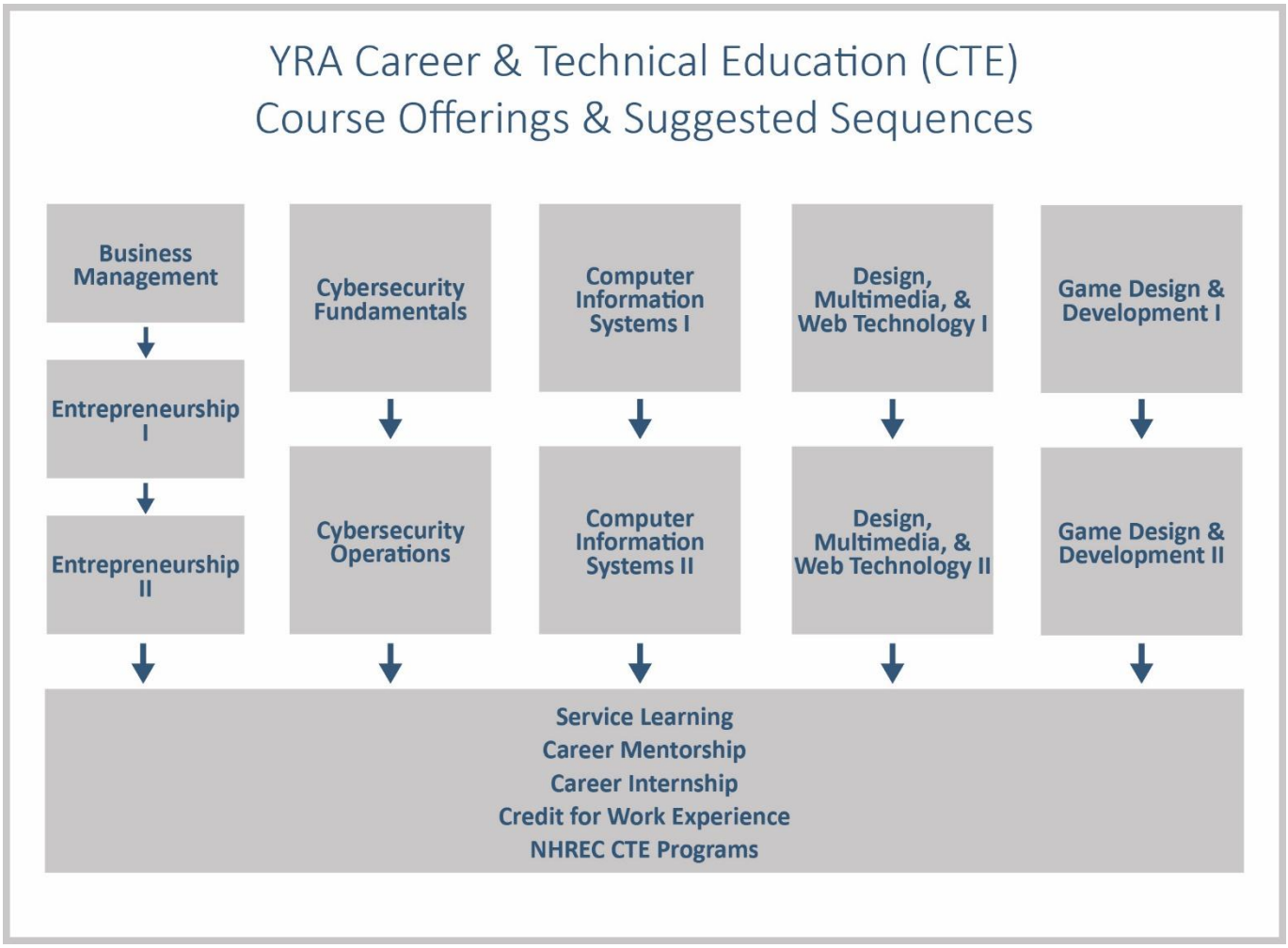
This course helps students develop a thorough understanding of fundamental marketing concepts and theories as they relate to the entertainment and sports industries,. Students will investigate the components of customer service, branding, product development, pricing, distribution, business structures, sales processes, digital media, sponsorships, and endorsements, as well as the promotion needed for entertainment (and sports) events. The course explores a variety of career options and develops workplace readiness skills.

YORK RIVER ACADEMY

York River Academy (YRA) offers a distinctive educational experience that blends core academics with career-focused learning, particularly in computer technology. Instruction at YRA emphasizes student engagement through collaborative teaching methods and blended learning strategies. This approach equips students with the skills needed to thrive both academically and in future professional environments.

Only students accepted into York River Academy may enroll in the courses listed within this section.

York River Academy students may enroll in courses outlined in other parts of this Program of Studies as the courses are available at YRA, as well as courses offered through YCSD Virtual High School and Virtual Virginia.



APPENDIX A – SEQUENTIAL ELECTIVES

Sequential electives mean any series of courses in which the content increases or expands in scope and sequence as students move through various levels of the courses. Students must take two sequential electives to complete their graduation requirements for a Standard or Advanced Studies Diploma. Some courses may be interchangeable. Any additional content course not required for graduation meets the requirements of a sequential elective; to include additional courses in math, science, social studies, and world language. ***Please speak with your school counselor as you are planning your academic course offerings to meet graduation requirements.***

English Sequential Electives

Year One Course Name	**Year Two Course Name**
Literary Magazine/Mass Media I	Literary Magazine/Mass Media II
Newspaper/Mass Media I	Newspaper/Mass Media II
Yearbook/Mass Media I	Yearbook/Mass Media II
Creative Writing: Poetry Creative Writing: Prose	

Fine Art Sequential Electives

Year One Course Name	**Year Two Course Name**
Art I Foundations	Crafts Ceramics A/B Art II: Intermediate Computer Graphic Art 3D Design
Art II: Intermediate	Art III: Advanced Intermediate
Art III: Advanced Intermediate	Art IV: Advanced
Photography & Communication Design I	Photography & Communication Design II
Drama I A/B	Drama II A/B Technical Theatre A/B
Drama II A/B	Drama III A/B
Drama III A/B Advanced Arts Link and Writer Workshop Advanced Theatre Arts I, II, III, IV	Drama IV A/B

Music

Year One Course Name	**Year Two Course Name**
Chorus I	Chorus II Small Vocal Ensemble II
Small Vocal Ensemble I	Small Vocal Ensemble II
Beginning Guitar	Guitar II
Percussion	
Jazz Ensemble	Concert Band II Symphonic Band I Wind Ensemble I
Concert Band I	Symphonic Band II

Symphonic Band I	Wind Ensemble II
Wind Ensemble	Wind Ensemble II
Music Theory	AP Music Theory

General Topics Sequential Electives

Year One Courses	**Year Two Courses**
Computer Science Foundations	Computer Science Principles

Health & PE Sequential Electives

Year One Courses	**Year Two Courses**
PE 11 A/B	PE 12 A/B

Social Studies Sequential Electives

Year One Courses	**Year Two Courses**
African American History	African American History
AP Microeconomics	AP Microeconomics
Psychology	Sociology
Sociology	AP Psychology
	Psychology

Naval Sciences Sequential Electives

Year One Courses	**Year Two Courses**
Navy JROTC II	Navy JROTC III
Navy JROTC III	Navy JROTC IV

Career & Technical Education Sequential Electives

Year One Courses	**Year Two Courses**
Accounting I	Accounting II
	Business Management
	Computer Information Systems I & II
	Design, Multimedia, and Web Technologies I & II
	Principles of Business and Marketing
Accounting II	Accounting I
Advanced Drawing/Design/CAD	Architectural Drawing/Design/CAD
	Engineering Drawing/Design/CAD
Aerospace Technology	Unmanned Aircraft Systems
Architectural Drawing/Design/CAD	Advanced Drawing/Design/CAD
	Basic Technical Drawing/Design/CAD
	Engineering/Drawing/Design/CAD
Basic Technical Drawing/Design/CAD	Advanced Drawing/Design/CAD
	Engineering/Drawing/Design/CAD
	Geospatial Technology I
Business Management	Accounting I
	Computer Information Systems I
	Design, Multimedia, and Web Technologies I
	Entrepreneurship Education I
	Medical Administration
	Principles of Business and Marketing

Career & Technical Education (Cont'd.)

Year One Courses	**Year Two Courses**
Computer Information Systems I	Accounting I Business Management Computer Information Systems II Cybersecurity Operations Design, Multimedia, and Web Technologies I Information Technology (IT) Fundamentals Medical Administration Principles of Business and Marketing Programming
Computer Information Systems II	Computer Information Systems I
Cybersecurity Fundamentals	Cybersecurity Operations Cybersecurity Systems Technology (NHREC) Information Technology (IT) Fundamentals
Cybersecurity Operations	Computer Information Systems I Cybersecurity Fundamentals Design, Multimedia, and Web Technologies I Information Technology (IT) Fundamentals Programming
Design, Multimedia, and Web Technologies I	Accounting I & II Business Management Computer Information Systems I & II Cybersecurity Operations Design, Multimedia, and Web Technologies II Information Technology (IT) Fundamentals Medical Administration Principles of Business and Marketing Programming
Design, Multimedia, and Web Technologies II	Design, Multimedia, and Web Technologies I
Emergency Medical Technician (GHSA only)	Emergency Medical Technician II (GHSA only)
Engineering Drawing /Design/CAD	Advanced Drawing and Design Basic Technical Drawing/Design/CAD
Entrepreneurship Education I	Business Management Entrepreneurship Education II Fashion Marketing I Marketing Management Marketing I & II Principles of Business and Marketing Sports and Entertainment Management
Entrepreneurship Education II	Entrepreneurship Education I
Fashion Marketing I	Entrepreneurship Education I Fashion Marketing II Marketing Management Marketing I & II Principles of Business and Marketing
Fashion Marketing II	Fashion Marketing I
Game Design and Development I	Game Design and Development II Programming

Career & Technical Education (Cont'd.)

Year One Courses	**Year Two Courses**
Information Technology (IT) Fundamentals	Computer Information Systems I Cybersecurity Fundamentals Cybersecurity Operations Design, Multimedia and Web Technology I Medical Administration Programming
Introduction to Health and Medical Sciences	Dental Careers I (NHREC) Medical Administration Medical Terminology Physical and Occupational Therapy I (NHREC) Sports Medicine I
Life Planning	Culinary Arts I (NHREC) Early Childhood Education (NHREC) Nutrition and Wellness Virginia Teachers for Tomorrow I
Marketing I	Entrepreneurship Education I Fashion Marketing I Marketing Management Marketing II Principles of Business and Marketing Sports and Entertainment Marketing
Marketing II	Entrepreneurship I Fashion Marketing I Marketing I Marketing Management Principles of Business and Marketing Sports and Entertainment Marketing Sports and Entertainment Management
Marketing Management	Entrepreneurship Education I Fashion Marketing I Marketing I & II Principles of Business and Marketing Sports and Entertainment Marketing
Medical Terminology	Introduction to Health and Medical Sciences Medical Administration
Medical Administration	Accounting I Business Management Computer Information Systems I Design, Multimedia and Web Technologies I Introduction Technology (IT) Fundamentals Introduction to Health and Medical Science Medical Terminology Principles of Business and Marketing
Nutrition and Wellness	Culinary Arts I & II II (NHREC) Early Childhood Education (NHREC) Life Planning

Career & Technical Education (Cont'd.)

Year One Courses	**Year Two Courses**
Principles of Business and Marketing	Accounting I Business Management Computer Information Systems I Design, Multimedia, and Web Technologies I Entrepreneurship Education I Fashion Marketing I Marketing I & II Marketing Management Medical Administration Sports and Entertainment Management Sports and Entertainment Marketing
Programming	AP Computer Science A AP Computer Science Principles Computer Information Systems I Cybersecurity Operations Design, Multimedia, and Web Technologies I Information Technology (IT) Fundamentals
Sports and Entertainment Management	Sports and Entertainment Marketing
Sports and Entertainment Marketing	Marketing Management Marketing I Principles of Business and Marketing Sports and Entertainment Management
Sports Medicine I	Sports Medicine II Introduction to Health and Medical Sciences
Sports Medicine II	Sports Medicine I
Unmanned Aircraft Systems	Aerospace Technology
Virginia Teachers for Tomorrow I	Early Childhood Education (NHREC) Life Planning Virginia Teachers for Tomorrow II
Virginia Teachers for Tomorrow II	Virginia Teachers for Tomorrow I

INDEX

Middle Schools

Grafton Middle School
Main Office: **757-898-0525**
Counseling Office: **757-898-0560**

Tabb Middle School
Main Office: **757-898-0320**
Counseling Office: **757-898-0319**

Queens Lake Middle School
Main Office: **757-220-4080**
Counseling Office: **757-220-4070**

Yorktown Middle School
Main Office: **757-898-0360**
Counseling Office: **757-898-0410**

High Schools

Bruton High School
Main Office: **757-220-4050**
Counseling Office: **757-220-4055**

York High School
Main Office: **757-898-0354**
Counseling Office: **757-898-0424**

Tabb High School
Main Office: **757-867-7400**
Counseling Office: **757-867-5399**

Grafton High School
Main Office: **757-898-0530**
Counseling Office: **757-898-0550**

York River Academy
Main Office: **757-898-0516**
Counseling Office: **757-898-0517**

The York County School Division does not discriminate on the basis of race (Title VI), color, religion, national origin, veteran status, sex, gender (Title IX), age or disability (Section 504), or any other protected class in its educational programs, activities or employment and provides equal access to the Boy Scouts and other designated youth groups. The following positions have been designated to handle inquiries regarding the non-discrimination policies:

Title IX Coordinator
Chief Human Resources Officer
302 Dare Road
Yorktown, VA 23692
757-898-0349

Section 504/ADA Coordinator
Director of Special Education
302 Dare Road
Yorktown, VA 23692
757-898-0455