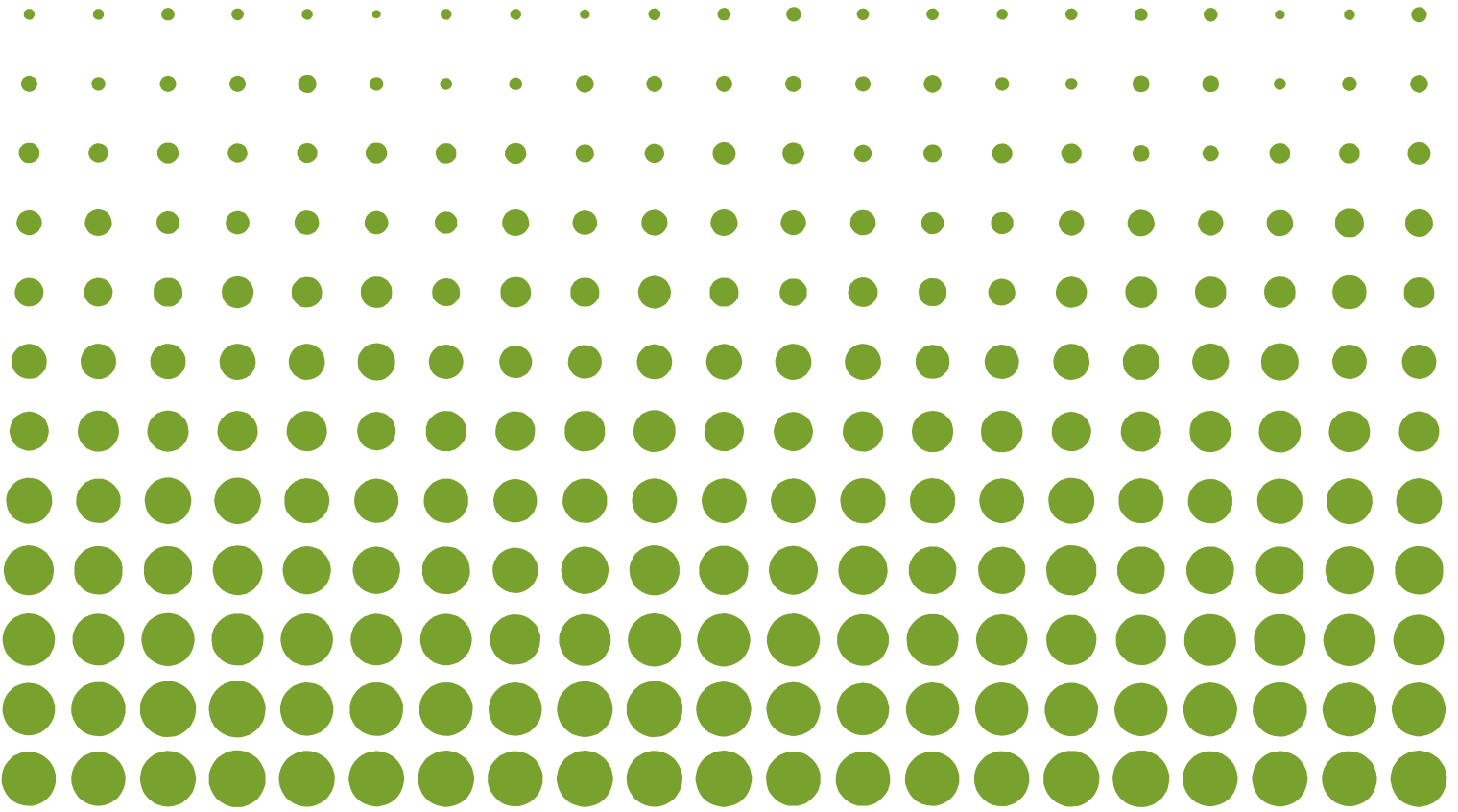




2012-2013  
**Secondary**  
**Program of Studies**

**Registration and Information Guide**

**Grades 6-12**



[yorkcountyschools.org](http://yorkcountyschools.org)

# ***Table of Contents***

## **Select topic for specific information:**

Advanced Placement & Advanced Courses.....	5
Career and Technical Education.....	6
Course Changes.....	5
Dual Enrollment.....	6
Early College Scholars.....	6
General Information.....	4
Governor’s Academy for Innovation, Technology and Engineering (GAITE).....	6
Grading Scale and Credits.....	4
Graduation Requirements for Students Entering 9 <sup>th</sup> Grade Prior to 2011-12.....	10
Graduation Requirements for Students Entering 9 <sup>th</sup> Grade in 2011-12 and Later.....	11
Graduation: Types of Diplomas and Recognitions.....	8
High School Scheduling.....	5
Honors Program .....	7
Middle School Scheduling.....	5
Reading Lists and Summer Assignments.....	5
Sequential Elective Requirement.....	9
Verified Credit.....	9

## ***Course/Program Descriptions***

Art.....	39
Business & Information Technology (Career/Technical Education) .....	42
Drama.....	44
English.....	46
Family & Consumer Science (Career/Technical Education) .....	49
General Topics Courses.....	50
Health and Medical Sciences (Career/Technical Education) .....	53
History/Social Science.....	54
Marketing Education (Career/Technical Education) .....	57
Mathematics.....	59
Music.....	63
Naval Science.....	67
Physical Education/Health/Driver Education.....	67
Science.....	68
Special Education.....	71
Technology Education (Career/Technical Education) .....	73
Trade & Industrial Education (Career/Technical Education) .....	74
World Languages.....	75
International Baccalaureate Programme.....	83
International Baccalaureate Middle Years Programme.....	88
Middle School Arts Magnet.....	96
New Horizons Career & Technical Center.....	98
New Horizons Governor’s School for Science & Technology.....	79
School of the Arts.....	92
York River Academy.....	103

## General Information

The purpose of this *Secondary Program of Studies Registration and Information Guide* is to describe programs and courses offered in the middle and high schools of the York County School Division. Included are descriptions of courses within a discipline from those offered in the 6<sup>th</sup> grade to those available at the high school level. Grade-level designations represent the grade at which most students take the course described. Exceptions to the state grade levels may be made to meet the educational needs of an individual student. Detailed information about courses and programs is available in the guidance office at each school.

This guide is designed to assist students and their parents with long-range program planning and selecting courses for next year. 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 toward the accomplishment of their educational, personal, and career goals.

Parents are asked to review this *Secondary Program of Studies Registration and Information Guide* with their student. Information in this booklet should generate helpful discussions about career 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.

**NOTE:** Courses in the Program of Studies may not be offered at all schools due to available staffing or materials costs.

### CREDIT/COURSE INFORMATION

- ❑ **Weighted Courses** – These courses are Advanced Placement, advanced or other courses in which credit is increased due to the rigor of the curriculum and quality of work accomplished.
- ❑ **Transfer Credits** – Transfer grades and credits from other school divisions will be accepted by the York County School Division 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 the York County School Division and will be computed according to York County 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 the York County School Division, the student will not receive weighted credit for the course.
- ❑ **Electives** – Electives must be approved by a guidance counselor and must be in accordance with the educational career plan of the student.
- ❑ **Non-YCSD Courses** – High school students who wish to take courses at colleges or other institutions outside the York County School Division must have those courses **approved in advance by the principal** for high school credit to be awarded. Such courses cannot be offered by the YCSD or the New Horizons Regional Education Center and must be compatible with local and state regulations. Credit toward requirements for graduation may be accepted from accredited two-year or four-year colleges if the student secures written approval from the principal prior to enrollment in the course. The principal may award weighted credit based on the content of the course. The York County School Division does not accept partially enrolled students.
- ❑ **Virtual Virginia Advanced Placement School (Virginia Department of Education [VDOE])** – Virtual Advanced Placement courses may not be taken as a substitute for an on-campus course.
- ❑ **Course Load** – At schools on a Hybrid 4 x 4 schedule, a full course load is eight credit-bearing courses. At schools on a 7A/B schedule, a full course load is seven credit-bearing courses. Students may be approved to take no more than eight credit-bearing courses per year based on academic history and principal recommendation.
- ❑ **Low-Enrollment Courses** – Courses with low enrollment or requiring special equipment may not be offered at all locations or may not be offered in a given school year.
- ❑ **Program and Course Offerings** – Program and course offerings are subject to budget determinations.

### GRADING SCALE/CLASS RANK

- ❑ **Grading Scale** – Courses taught in York County middle and high schools are assigned grade-point values as indicated below.

A	92-100	4 points
B	84-91	3 points
C	75-83	2 points
D	67-74	1 point
F	66 and below	0 points

- ❑ **Class Rank** – High school class rank within the York County School Division 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 (see *Student Handbook*).
- ❑ **Promotion** – Middle school students are promoted based upon achievement in all subject areas and successful completion of English, history/social science, math, and science. High school students are promoted based upon achievement reflected in the number of credits earned (Grade 10/minimum of 5 credits; Grade 11/minimum of 10 credits; Grade 12/minimum of 15 credits).

### **Middle School Scheduling**

**Grade 6:** Students in grade 6 have six classes including a double block for English, a double block for mathematics, a period of physical education, and a variety of electives on the Exploratory Wheel. Exploratory Wheel courses for 6<sup>th</sup> graders include some of the following: *Art, Conflict Resolution, Drama, World Language, Music, Introduction to Technology, Family & Consumer Science, and Career Compass.*

**Grades 7 & 8:** Students in grades 7 and 8 have eight classes on an A/B rotation (4 each day). Seventh and eighth grade students may have double blocks for English and/or for mathematics. Students are not teamed and take both required and elective courses.

### **High School Scheduling**

Grafton High and Tabb High operate on a 7A/B schedule. Students on the 7A/B schedule take six block classes (three per day/alternating days) that are approximately 90 minutes each and one approximately 50-minute class that meets every day for the entire year. Bruton High, York High and York River Academy operate on a Hybrid 4x4 schedule. On the Hybrid 4x4 schedule, the school day is divided into four instructional blocks that are approximately 90 minutes each and the school year is divided into two terms (a term is approximately 18 weeks in length). Most classes meet every day for a term and at the end of the term, students earn a full credit. Some classes meet all year on an alternating-day (A/B) block schedule. Freshmen, sophomores and juniors must take a full course load.

### **Reading Lists**

A variety of reading lists are provided for grades K-12. In-Class Reading Lists, Supplemental Reading Lists, and Summer Reading Lists offer educationally appropriate literature selections. These reading lists are included in the Program of Studies document that is maintained in each school and in the public libraries. They are also available online at <http://yorkcountyschools.org> in the parent resources section. A parent/guardian who wishes for his/her child not read a particular reading list selection that has been assigned for study may request that the school principal provide an alternate literature selection for the student.

### **Summer Academic Assignments**

Summer academic requirements for designated courses that students will take during the next school year are assigned to students during the last few weeks of the current school year. These assignments are consistent among schools throughout the school division, and students enrolled in these courses are expected to complete the assignments prior to the beginning of the next school year.

## **COURSE CHANGES**

The York County School Division 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. If changes occur within the first two weeks of the semester, the original course and the earned grade will not appear on the student's record. In a block class, no course changes will take place after the fifth class meeting. In a non-block (50-minute) class, no course changes will take place after the first two weeks of the semester. 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 area, to compute the final grade the earned grade from the first course will be prorated and averaged with the earned grade from the new course

## **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. Each of the courses listed below carries weighted credit. Students in grades 10, 11 and 12 who have completed prerequisite courses are eligible for Advanced Placement courses as well as Virtual Virginia Advanced Placement courses.

Students enrolled in an Advanced Placement course are required to take the Advanced Placement exam for that course. All Advanced Placement courses are designed to help prepare students for Advanced Placement exams. Taking Advanced Placement exams does not automatically enable a student to gain college credits. Credit award decisions are made by individual colleges.

**Advanced Placement (AP) Courses**

Advanced Placement Art History, Advanced Placement Studio Art, Advanced Placement English 11, Advanced Placement English 12, Advanced Placement French Language, Advanced Placement Spanish Language, Advanced Placement United States History, Advanced Placement European History, Advanced Placement Human Geography, Advanced Placement United States Government, Advanced Placement Psychology, Advanced Placement Calculus AB, Advanced Placement Calculus BC, Advanced Placement Statistics, Advanced Placement Biology, Advanced Placement Environmental Science, Advanced Placement Chemistry, Advanced Placement Physics B. NOTE: Except for BHS, on-line Advanced Placement Biology is taught in even years (e.g., 2013-14, 2015-16); Advanced Placement Chemistry is taught in odd years (e.g., 2012-13, 2014-15).

**Virtual Advanced Placement School (Virginia Department of Education)**

Advanced Placement Government & Politics: Comparative, Advanced Placement Human Geography, Advanced Placement Latin Literature, Advanced Placement Chinese Language and Culture, Advanced Placement Macro-Economics, Advanced Placement Micro-Economics, Advanced Placement World History, Advanced Placement Art History

**Advanced Courses**

Advanced English 9, Advanced English 10, Advanced Geometry, Math Analysis, Algebra II/Trigonometry, French IV, German IV, Latin IV, Spanish IV, Biology II/Mammalian Anatomy & Physiology, Biology II/Marine Science, Advanced Literary Arts I, Advanced Literary Arts II, Advanced Literary Arts III, Advanced Literary Arts IV, Advanced Literary Arts Writing Practicum, Advanced Theatre Arts I,II,III,IV, Advanced Theatre Arts II,II,IV with Practicum, Advanced Technical Theatre I,II,III,IV, Advanced Theatre Arts II,III,IV with Practicum, IB Language A1-English (HL) (11&12), IB Language B-French/Spanish (SL) (11&12), IB History of the Americas (11&12), IB Mathematics (HL) (11&12), IB Mathematics (SL) (12), IB Biology (HL) (11&12), IB Physics (HL) (11&12), IB Physics (SL) (12), Governor's School courses.

**Dual Enrollment**

Students may have the opportunity to select from the following YCSD courses under a dual enrollment agreement with Thomas Nelson Community College (TNCC): Business Management, Computer Information Systems I, Computer Information Systems II, Computer Systems Technology I, Computer Systems Technology II, Design, Multimedia & Web Technologies, Computer Applications (1 credit course), Engineering Drawing/Design, Introduction to Engineering, Information Technology Fundamentals, Marketing II/CO-OP, Web Design I/Computer Applications (YRA), Web Design II/Computer Applications (YRA), Advanced Marketing (VHS), Business Management (VHS), Computer Information Systems I and II (VHS), Web Design, Computer Applications I and II (VHS), Due to TNCC requirements, course selection may vary by high school. TNCC's application process, placement testing procedures, and timelines must be followed.

**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.

## CAREER/TECHNICAL EDUCATION

Within the York County School Division, career/technical programs are offered for high school credit with concentrations that lead to career/technical completer status. Career/Technical Education courses prepare students to take industry certification exams. Meeting the needs of students as they prepare to work in the 21<sup>st</sup> century are offerings in Business & Information Technology, Health & Medical Sciences, Marketing Education, Technology Education, and Trade & Industrial Education. The New Horizons Regional Education Center provides additional opportunities for students throughout the region. For additional information call 898-0469.

**GOVERNOR'S ACADEMY FOR INNOVATION, TECHNOLOGY AND ENGINEERING (GAITE)**

GAITE prepares students as Engineering Technologists with careers in Electrical and Mechanical Engineering Technology. The GAITE Academy completer must possess a 2.5 GPA, 4 years of science, math beyond Algebra II, 2 years of World Language, and completion of the divisional career pathway resulting in an industry certification and/or a minimum of 9 transferable college credits. GAITE completers will earn a Governor's seal, priority application review from partner colleges, and an interview for internships at NASA, Northrop Grumman, and other local businesses.

GAITE, located in each of the six Virginia Peninsula school divisions, is one of the first Governor's Academies for Career and Technical Education in Virginia. The Engineering Technology pathways are coordinated with the Engineering Technology programs at Thomas Nelson Community College, Rappahannock Community College, The Apprentice School at Northrop Grumman, and Old Dominion University. The GAITE Academy involves partners from education, business (NASA, Canon, and Northrop Grumman), postsecondary education, and non-profit organizations.

Visit [www.nhrec.org/gaite](http://www.nhrec.org/gaite) to learn more about GAITE including requirements, divisional course pathways, and enrichment opportunities. Students may select courses offered at York High School or at New Horizons Regional Education Center.

## 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. Students choosing to participate in this program are required to complete courses prescribed by the Honors Program, maintain a specified GPA, and complete 20 hours of community service outside of school. Students who successfully complete the Honors Program are recognized with the Honors Seal on their diplomas.

### Honors Program Courses

**Grade 8**—Advanced English 8; Civics and Economics; Algebra I, Geometry, or Algebra II; Physical Science 8; French or Spanish I/II, Physical Education & Lifetime Fitness 8; Elective

### **Grade 9–12**

- Students in the Honors Program must maintain a cumulative Grade Point Average (GPA) of 3.00 in the 9<sup>th</sup> grade, and 3.25 in the 10<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup> grades.
- Students must take a minimum of 6 Advanced Placement (AP) classes representing 4 content areas.
- Students must take a minimum of 4 credits of the same World Language. World Language courses taken for high school credit and successfully completed in the 7<sup>th</sup> grade may count as 1 of the 4 consecutive years.
- Students must earn a 3 or better on at least 2 Advanced Placement (AP) Exams prior to their senior year.
- To remain in the Honors Program students must remain enrolled in a full course load each year, may not expunge a grade, 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.”.
- Students must complete 20 hours of community service outside of school.

## VIRTUAL LEARNING - ONLINE COURSES

The York County School Division has expanded its academic program by offering engaging and interactive online courses through a virtual learning environment. Students enrolled in virtual learning courses may access their coursework through any computer with an Internet connection. Students participating in virtual courses are most successful 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.

### Advanced Placement and Advanced Courses

VirtualVirginia.org, also known as Virtual VA, is a part of the Virginia Department of Education’s Virginia Virtual Advanced Placement School. These online classes are an exciting and challenging way for 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grade students to pursue academic courses not offered in the student’s home school. Classes feature a rich variety of media including multimedia, online field trips, simulations, and interactive learning tools. Students are required to attend training prior to beginning the course. Students must log into these virtual courses daily. Students are actively engaged in online discussion and learn to track messages, submit documents electronically, and meet online with teachers and students using a chat component.

### York County School Division Virtual High School (VHS)

Virtual High School (VHS) offers opportunities for students to participate in online courses through an approval process. Online courses are available for original or repeat credit during Summer Academy. Students may be allowed to enroll in Virtual High School courses during the school year when courses are offered in their school building. Core and elective courses may be requested based on the student’s individual circumstances by submitting a request in writing to the student’s guidance counselor. Pending principal approval, the request will be submitted to school board office staff for final approval. Courses taught virtually are indicated with the word *online*.

Some online courses require tuition payment. The amount of tuition is determined based on the enrollment and student’s circumstances. Students may make an appointment with their guidance counselor and ask about available online courses.

Students are required to attend training and log into these online courses daily. Students are actively engaged in online discussion and learn to track messages, submit documents electronically, and meet online in “live” sessions with teachers and students using a chat component and virtual whiteboard.

## GRADUATION: DIPLOMAS/CERTIFICATES

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 9<sup>th</sup> grade for the first time. Students may be awarded a diploma or a certificate upon graduation from a Virginia high school. Specific graduation requirements are shown on page 10. NOTE: Graduation and course requirements listed are subject to change due to possible modifications in state requirements.

- **Advanced Studies Diploma** – To earn an Advanced Studies Diploma (26 credits for students entering 9<sup>th</sup> grade in 2011 and later) in the York County School Division, a student must successfully complete the following Standard Units of Credit: English/4; History & Social Science/4; Mathematics/4; Laboratory Science/4; World Language/3; Health & PE/2; Economics and Personal Finance/1; Fine Arts or Career and Technical Education/1; and Electives/3.
- **Advanced Technical Diploma** – To earn an Advanced Technical Diploma (26 credits for students entering 9<sup>th</sup> grade in 2012 and later) in the York County School Division, a student must complete the following Standard Units of Credit: English/4, History & Social Sciences/4; Mathematics/4, Laboratory Science/4; World Language/3; Health & PE/2; Economics and Personal Finance/1; Fine Arts or Career and Technical Education/1; Career and Technical Education/3
- **Standard Diploma**– To earn a Standard Diploma (22 credits) in the York County School Division, a student must successfully complete the following Standard Units of Credit: English/4; History & Social Science/4; Mathematics/3; Laboratory Science/3; Health & PE/2; Economics and Personal Finance/1; World Language, Fine Arts or Career and Technical Education/2; and Electives/3. Credits must include at least two sequential electives.
- **Standard Technical Diploma** – To earn a Standard Technical Diploma (22 credits) in the York County School Division, a student must complete the following Standard Units of Credit: English/4; History & Social Sciences/4; Mathematics/3; Laboratory Science/3; Health & PE/2; Economics and Personal Finance/1; Fine Arts or World Language/1; Career and Technical Education/4 Credits; and Electives/Credits must include at least two sequential electives.
- **Modified Standard Diploma**– Eligibility for the Modified Standard Diploma is determined by the student's Individual Education Program (IEP). To earn a Modified Standard Diploma (20 credits) in the York County School Division, a student must successfully complete the following Standard Units of Credit: English/4; History & Social Science/2; Mathematics/3; Science/2; Health & PE/2; Fine or Practical Arts/1; and Electives/6. Credits must include at least two sequential electives. Students pursuing the Modified Standard Diploma must pass literacy and numeracy competency assessments prescribed by the State Board of Education.
- **General Achievement Diploma** – Certain individuals who meet specific conditions and complete a prescribed course of study as defined by the State Board of Education may be awarded the General Achievement Diploma.
- **Special Diploma**– Certain students identified with disabilities who complete the requirements of their Individual Education Program (IEP) are awarded Special Diplomas by the local school board.
- **Special Certificate**– Certain students who have completed a prescribed course of study as defined by the local school board are awarded Special Certificates if they do not qualify for diplomas.

---



---

### **GRADUATION: 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. In addition, the York County School Division and the International Baccalaureate Programme offer additional academic recognitions. Students may earn more than one seal recognition.

- **State Board of Education Seal**– Students who earn the Standard Diploma with an average grade of “A” or better will receive the State Board of Education Seal. Students who entered ninth grade in 2006-07 or later are eligible for the State Board of Education Seal if they earn the Advanced Diploma or the Standard Diploma with an average grade of “A” or better.
- **Governor’s Seal**– Students who entered 9<sup>th</sup> grade in 2006-07 or later 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 (Early College Scholars), will receive the Governor’s Seal.
- **State Board of Education Career & Technical Education Seal**– Students who earn the Standard 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 will receive the State Board of Education Career & Technical Education Seal.
- **State Board of Education Seal of Advanced Mathematics & Technology**– Students who earn the Standard or Advanced Studies Diploma and satisfy all of the mathematics requirements for the Advanced Studies Diploma and maintain a “B” average in those courses **and either** pass a certification examination from a recognized industry, trade or professional organization **or** acquire a professional license in a career/technical area **or** pass an exam approved by the Board that confers college-level credit in a technology or computer science area will receive the State Board of Education Seal of Advanced Mathematics & Technology.
- **State Board of Education Seal for Excellence in Civics Education**– Students who earn the Standard or Advanced Studies Diploma **and** complete Virginia and U.S. History and Virginia and U.S. Government with a grade of “B” or higher **and** complete 50 hours of voluntary participation in community service or extracurricular activities (e.g., volunteering for an organization that provides services to the poor, sick, less fortunate **or** participating in: Boy Scouts, Girl Scouts, and

similar organizations; in NJROTC; in political campaigns or government internships, Boys State, Girls State, Model General Assembly; and/or in school-sponsored extracurricular activities that have a civic focus) **or** enlisting in the United States military prior to graduation **and** have good attendance with no disciplinary infractions as determined by the local school board receive the State Board of Education Seal for Excellence in Civics Education.

☐ **York County School Division Honors Seal** – Students who complete the course of study for the York County School Division Honors Program will receive the Honors Seal on the diploma in addition to other applicable seals.

☐ **International Baccalaureate Diploma**– Students who complete the course of study and exams for the International Baccalaureate Programme will receive the International Baccalaureate Diploma in addition to the appropriate York County high school diploma with applicable seals.

☐ **Early College Scholars** – Students who earn at least 15 hours of transferable credits toward a college degree will receive Early College Scholars Certificates.

### **Sequential Elective Requirement**

To graduate with a Standard or Modified Standard Diploma, students must have earned a minimum of two units of credit in sequential electives. A student fulfills the sequential elective requirement by meeting applicable prerequisites for and successfully completing a minimum of two sequential elective credits in a single subject area. Courses that fulfill another specific graduation requirement or courses that are substituted for a particular graduation requirement (e.g., Rhythmic Arts credit that substitute for a required PE credit) may not be used as part of the sequential elective requirement. Information on sequential electives is available in school guidance offices.

### **YCSD Sequential Electives**

**ART:** Art I & Art II; Art I & Computer Graphic Art; Art I & Advanced Placement Art History; Art I & Art Heritage; Art I & Photography and Communication Design I; Art I, Crafts: Decorative Arts/Design & Cultural Arts; Art I, Pottery: Clay Designs & Classic Clay Creations, Photography and Communication Design I & Photography and Communication Design II

**CAREER AND TECHNICAL EDUCATION:** Guidance on sequential electives for Career and Technical Education may be found at [http://www.doe.virginia.gov/VDOE/Instruction/CTE/apg/apg\\_sec02bit.doc](http://www.doe.virginia.gov/VDOE/Instruction/CTE/apg/apg_sec02bit.doc). Sequential elective information is available for the following programs of study: Business and Information Technology, Health & Medical Sciences, Marketing Education, Technology Education, and Trade and Industrial Education.

**DRAMA:** Drama I & Drama II, Drama I & Survey of World Drama; Drama I & Technical Theatre

**ENGLISH:** Literary Magazine/Mass Media I & II; Newspaper/Mass Media I & II; Yearbook/Mass Media I & II

**HEALTH & PHYSICAL EDUCATION:** Physical Education 11 A & B (.5 & .5) & Physical Education 12 A & B (.5 & .5)

**MUSIC:** Chorus I & II; Small Vocal Ensemble I & II; Chorus I & Small Vocal Ensemble II; Small Vocal Ensemble I & Chorus II; Concert Band I & II; Symphonic Band I & II; Woodwind Sectionals I & II; Brass Sectionals I & II; Percussion Sectionals I & II; Woodwind, Brass, or Percussion Sectionals I & Concert Band II; Woodwind, Brass, or Percussion Sectionals I & Symphonic Band II

**NJROTC** Naval Science I & II; Naval Science III & IV

**SCHOOL OF THE ARTS:** Advanced Arts Link 9 & 10; Advanced Writer Workshop 10 & 11; Advanced Theatre Arts I & II; Rhythmic Arts I & II; Advanced Technical Theatre I & II

**NEW HORIZONS:** Certain Governor's School & Career/Technical courses meet the sequential elective requirement.

**WORLD LANGUAGE:** Arabic I and II, French I & II; German I & II; Latin I & II; Spanish I & II; Mandarin Chinese I and II

### **VERIFIED CREDIT**

Students are required to earn verified credit by passing a specific number of SOL End-of-Course tests in certain subject areas prior to high school graduation. For the Standard Diploma, students who were first-time 9<sup>th</sup> graders in 2003-04 and beyond must earn verified credits by passing the following tests: 2 English, 1 History/Social Science, 1 Mathematics, 1 Science, and 1 student-selected SOL test. For the Advanced Studies Diploma, students must earn verified credits by passing the following tests: 2 English, 2 History/Social Science, 2 Mathematics, 2 Science, and 1 student-selected SOL test.

## Diploma Options and Virginia Graduation Requirements for Students Entering 9<sup>th</sup> Grade in 2010-11 and Earlier

### Requirements for the Advanced Studies Diploma for students entering 9<sup>th</sup> grade prior to 2011-12

Content Area	Standard Units of Credit Required	Verified Credits * Required
English	4	2
Mathematics <sup>A</sup>	4	2
Science <sup>B</sup>	4	2
History & Social Science <sup>C</sup>	4	2
World Language <sup>D</sup>	3	
Health & PE	2	
Fine Arts or Career/ Technical Education	1	
Electives	2	
Student-Selected Test		1
<b>Total</b>	<b>24</b>	<b>9</b>

\* A verified unit of credit in a course is awarded when a student passes an end-of-course SOL test.  
NOTE: An Advanced Studies Diploma terminates YCSD's obligation to provide free appropriate public education to a special education student.

### Requirements for the Standard Diploma for students entering 9<sup>th</sup> grade prior to 2011-12

Content Area	Standard Units of Credit Required	Verified Credits Required
English	4	2
Mathematics <sup>A</sup>	3	1
Science <sup>B</sup>	3	1
History & Social Science <sup>C</sup>	4	1
Health & PE	2	
Fine Arts or Career/ Technical Education	2	
Electives <sup>E</sup>	4	
Student-Selected Test		1
<b>Total</b>	<b>22</b>	<b>6</b>

\* A verified unit of credit in a course is awarded when a student passes an end-of-course SOL test.  
NOTE: A Standard Diploma terminates YCSD's obligation to provide free appropriate public education to a special education student.

### Requirements for the Modified Standard Diploma for all students

Content Area	Standard Units of Credit Required	No Verified Credits are required for a Modified Standard Diploma
English	4	Students must meet the 8 <sup>th</sup> grade SOL literacy and numeracy cut scores established by the Virginia Board of Education to qualify for a Modified Standard Diploma. End-of-course SOLs are approved as substitute assessments for the literacy and numeracy competency requirements. Students receiving a modified Standard Diploma are eligible to receive special education services through age 21.
Mathematics <sup>A</sup>	3	
Science <sup>B</sup>	2	
History & Social Science <sup>C</sup>	2	
Health & PE	2	
Fine Arts or Career/ Technical Education	1	
Electives <sup>E</sup>	6	
<b>Total</b>	<b>20</b>	

**A. Mathematics:** For the Advanced Studies Diploma and for the Advanced Standard Technical Diploma, credits shall include at least four different course selections from among Algebra I, Geometry, Algebra, Functions, and Data Analysis, Algebra II, or other mathematics courses above the level of Algebra II. For the Standard Technical Diploma, credits shall include at least three different course selections from among Algebra I, Geometry, Algebra, Functions, and Data Analysis, Algebra II, or other mathematics courses above the level of Algebra II. For the Standard Diploma, three credits must be earned at or above the level of Algebra I and shall include at least two different course selections from Algebra I, Geometry, Algebra, Functions, and Data Analysis, Algebra II, or other mathematics courses above the level of 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 and technical concentration. For the Modified Standard Diploma, credits must be from among Applications of Algebra, Geometry, Personal Finance and Probability and Statistics courses.

**B. Science:** For the Advanced Studies Diploma and for the Advanced Technical 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. For the Standard Diploma and for the Standard Technical Diploma, credits must be from at least two different science disciplines. For the Modified Standard Diploma, credits must include at least two of the following: Applications of Earth Science, Biology, Chemistry, or Physics.

**C. History & Social Science:** For the Advanced Studies, Advanced Technical, Standard, and Standard Technical Diploma, credits must include World History to 1500 AD or AP Human Geography, World History from 1500 AD to the Present or AP European History, Virginia and U.S. History, and Virginia and U.S. Government. For the Modified Standard Diploma, credits must include Virginia and U.S. History and Virginia and U.S. Government.

**D. World Language:** For the Advanced Studies Diploma and for the Advanced Technical Diploma, credits must include three years of one language or two years of two languages.

**E. Electives:** For the Standard, Standard Technical, and Modified Standard Diplomas, credits must include two sequential electives.

**F. Career and Technical Education:** Courses completed to satisfy this requirement must include a career concentration. If the career concentration includes a specific assessment for which the student is eligible, the student is required to take the assessment.

**G. World Language, Fine Arts, or Career/Technical Education:** One of the two credits must be in Fine Arts or Career and Technical Education.

**Diploma Options and Virginia Graduation Requirements  
for Students Entering 9<sup>th</sup> Grade in 2011-12 and Later**

**Beginning with students who enter ninth-grade in 2011-12, students shall earn the required standard and verified units of credits listed below (8VAC 20-131).**

**Requirements for the Advanced Studies Diploma for students entering 9<sup>th</sup> grade in 2011 and later**

Content Area	Standard Units of Credit Required	Verified Credits * Required
English	4	2
Mathematics <sup>A</sup>	4	2
Science <sup>B</sup>	4	2
History & Social Science <sup>C</sup>	4	2
World Language <sup>D</sup>	3	
Health & PE	2	
Economics and Personal Finance	1	
Fine Arts or Career/ Technical Education	1	
Electives	3	
Student-Selected Test		1
<b>Total</b>	<b>26</b>	<b>9</b>

\* A verified unit of credit in a course is awarded when a student passes an end-of-course SOL test.  
NOTE: An Advanced Studies Diploma terminates YCSD's obligation to provide free appropriate public education to a special education student.

**Requirements for the Standard Diploma for students entering 9<sup>th</sup> grade in 2011 and later**

Content Area	Standard Units of Credit Required	Verified Credits Required
English	4	2
Mathematics <sup>A</sup>	3	1
Science <sup>B</sup>	3	1
History & Social Science <sup>C</sup>	4	1
Health & PE	2	
World Language, Fine Arts or Career/ Technical Education <sup>G</sup>	2	
Economics and Personal Finance	1	
Electives <sup>E</sup>	3	
Student-Selected Test		1
<b>Total</b>	<b>22</b>	<b>6</b>

\* A verified unit of credit in a course is awarded when a student passes an end-of-course SOL test.  
NOTE: A Standard Diploma terminates YCSD's obligation to provide free appropriate public education to a special education student.

**A. Mathematics:** For the Advanced Studies Diploma and for the Advanced Standard Technical Diploma, credits shall include at least four different course selections from among Algebra I, Geometry, Algebra, Functions, and Data Analysis, Algebra II, or other mathematics courses above the level of Algebra II. For the Standard Technical Diploma, credits shall include at least three different course selections from among Algebra 1, Geometry, Algebra, Functions, and Data Analysis, Algebra II, or other mathematics courses above the level of Algebra II. For the Standard Diploma, three credits must be earned at or above the level of Algebra I and shall include at least two different course selections from Algebra I, Geometry, Algebra, Functions, and Data Analysis, Algebra II, or other mathematics courses above the level of 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 and technical concentration. For the Modified Standard Diploma, credits must be from among Applications of Algebra, Geometry, Personal Finance and Probability and Statistics courses.

**B. Science:** For the Advanced Studies Diploma and for the Advanced Technical 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. For the Standard Diploma and for the Standard Technical Diploma, credits must be from at least two different science disciplines. For the Modified Standard Diploma, credits must include at least two of the following: Applications of Earth Science, Biology, Chemistry, or Physics.

**C. History & Social Science:** For the Advanced Studies, Advanced Technical, Standard, and Standard Technical Diploma, credits must include World History to 1500 AD or AP Human Geography, World History from 1500 AD to the Present or AP European History, Virginia and U.S. History, and Virginia and U.S. Government. For the Modified Standard Diploma, credits must include Virginia and U.S. History and Virginia and U.S. Government.

**D. World Language:** For the Advanced Studies Diploma and for the Advanced Technical Diploma, credits must include three years of one language or two years of two languages.

**E. Electives:** For the Standard, Standard Technical, and Modified Standard Diplomas, credits must include two sequential electives.

**F. Career and Technical Education:** Courses completed to satisfy this requirement must include a career concentration. If the career concentration includes a specific assessment for which the student is eligible, the student is required to take the assessment.

**G. World Language, Fine Arts, or Career/Technical Education:** At least one of the two credits must be Fine Arts or Career/Technical Education.

**ADDITIONAL DIPLOMAS for Students Entering 9<sup>th</sup> Grade in 2012 and later**

Requirements for the **Advanced Technical Diploma** for students entering 9<sup>th</sup> grade in 2012 and later. Any student who earns the requirements for both the Advanced Studies and the Advanced Technical diploma may choose between these two diplomas.

Content Area	Standard Units of Credit Required	Verified Credits * Required
English	4	2
Mathematics <sup>A</sup>	4	2
Science <sup>B</sup>	4	2
History & Social Science <sup>C</sup>	4	2
World Language <sup>D</sup>	3	
Health & PE	2	
Economics and Personal Finance	1	
Fine Arts or Career/ Technical Education	1	
Career and Technical Education <sup>F</sup>	3	
Student-Selected Test		1
<b>Total</b>	<b>26</b>	<b>9</b>



\* A verified unit of credit in a course is awarded when a student passes an end-of-course SOL test.  
NOTE: An Advanced Studies Diploma terminates YCSD's obligation to provide free appropriate public education to a special education student.

Requirements for the **Standard Technical Diploma** for students entering 9<sup>th</sup> grade in 2012 and later

Content Area	Standard Units of Credit Required	Verified Credits Required
English	4	2
Mathematics <sup>A</sup>	3	1
Science <sup>B</sup>	3	1
History & Social Science <sup>C</sup>	4	1
Health & PE	2	
Fine Arts or World Language	1	
Economics and Personal Finance	1	
Career and Technical Education <sup>F</sup>	4	
Student-Selected Test		1
<b>Total</b>	<b>22</b>	<b>6</b>



\* A verified unit of credit in a course is awarded when a student passes an end-of-course SOL test.  
NOTE: A Standard Diploma terminates YCSD's obligation to provide free appropriate public education to a special education student.

**Requirements for a Special 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 Program (IEP) and does not meet the requirements for other diplomas shall be awarded a Special Diploma. Students receiving Special Diploma are eligible to receive special education services through the age of 21.

**Requirements for a Certificate of Program Completion**

This certificate option is for students who have sufficient credits for a Standard, Modified Standard, or Advanced Studies Diploma, but who have not met all of the requirements of those diploma options (i.e. verified credits).

**General Education Development Certificate (GED)**

The GED Battery includes five tests that measure the skills considered to be the major outcomes of a high school education. The tests focus on the major use of skills and concepts rather than upon recall of specific facts. The questions focus on the general abilities to analyze, evaluate, and draw conclusions. The subject areas of the tests are as follows:

- Test 1 – Language Arts – Writing
- Test 2 – Language Arts – Reading
- Test 3 – Science
- Test 4 – Interpreting Literature and the Arts
- Test 5 – Mathematics

**General Achievement Diploma (GAD):** See guidance counselor.

**Transfer students:** See your guidance counselor for all graduation requirements.

For more information, visit the High School Graduation link on the Virginia Department of Education's website at <http://www.doe.virginia.gov>

## ENGLISH

### Suggested Course Sequences

	English K-5	
English 6	Adv. English 6	
English 7	Adv. English 7	
English 8	Adv. English 8	
English 9	*Adv. English 9	*Adv. Literary Arts I/SOA
English 10	*Adv. English 10	*Adv. Literary Arts II/SOA
English 11	*AP English 11	*Adv. Literary Arts III/SOA
English 12	*AP English 12	*Adv. Literary Arts IV/SOA

	<i>English Electives (Grades 9-12)</i>	
* = Weighted Course SOA = School of the Arts (Audition)	Creative Writing: Poetry Creative Writing: Prose Public Speaking: Communication Public Speaking: Presentation	Newspaper Magazine/Mass Media I & II Yearbook Magazine/Mass Media I & II Directed Study English * Adv. Literary Arts Writing Practicum/SOA Literary Magazine/Mass Media I & II

## HISTORY/SOCIALSCIENCE

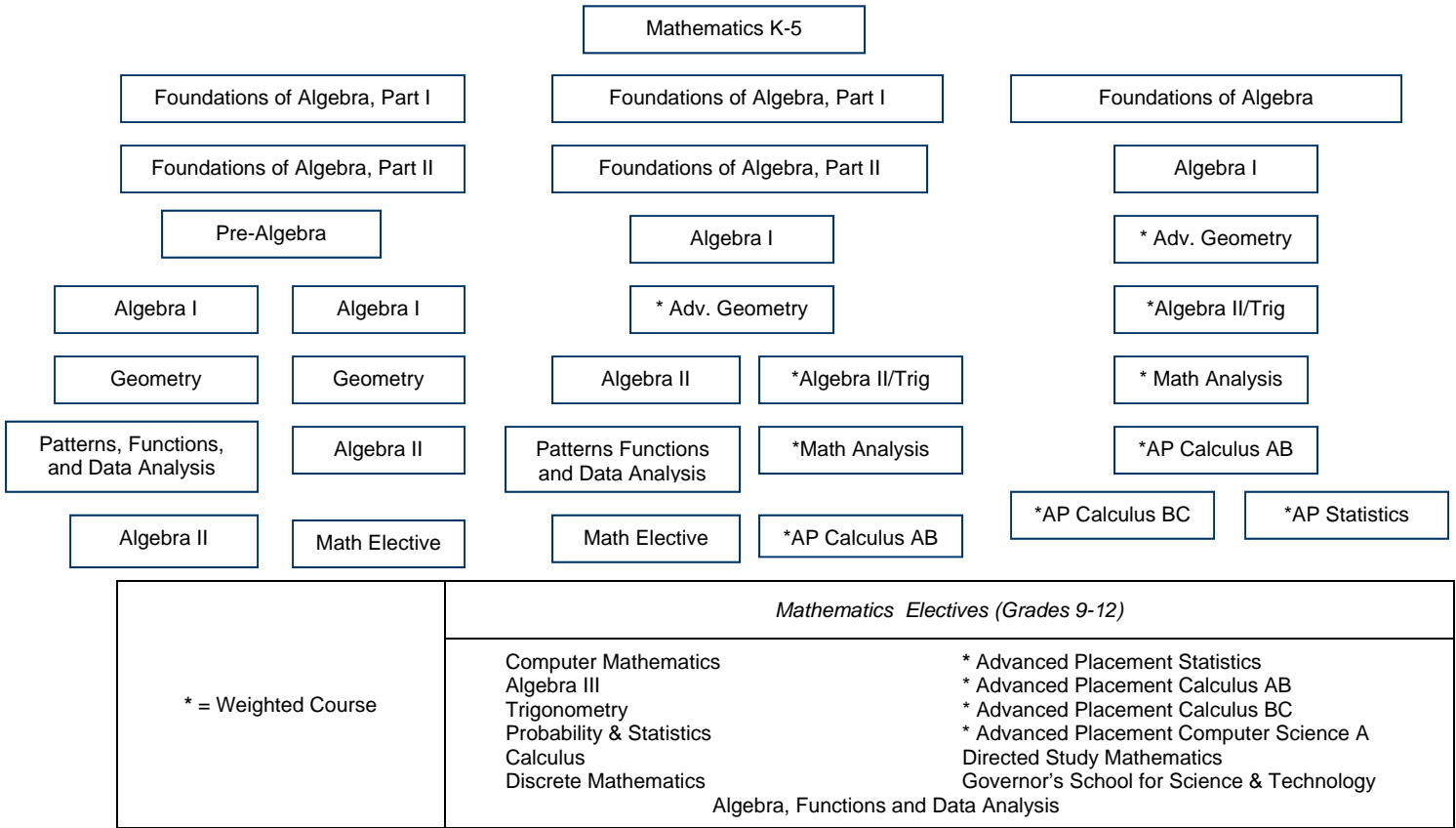
### Suggested Course Sequences

History/Social Science K-5	
U.S. History: New Nation to Reconstruction (6)	
US History II: 1877 to the Present (7)	
Civics and Economics (8)	
World History I	*AP Human Geography
World History II	*AP European History
Virginia & U.S. History	*AP U.S. History
Virginia & U.S. Government	*AP U.S. Government & Politics

	<i>History/Social Science Electives (Grades 9-12)</i>	
* = Weighted Course	Sociology: Aspects & Tools of Culture (Grades 10-12) Sociology: Institutions & Issues (Grades 10-12) International Relations Economics (Grades 10-12)	* Advanced Placement Human Geography * Advanced Placement European History * Advanced Placement Psychology Directed Study History/Social Science Psychology

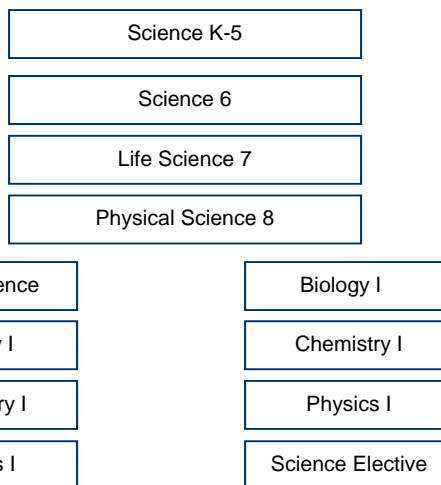
## MATHEMATICS

### Suggested Course Sequences



## SCIENCE

### Suggested Course Sequences



	<i>Science Electives (Grades 9-12)</i>	
* = Weighted Course	Atmospheric Science & Climatology Ecology and Environmental Science * Advanced Placement Biology * Advanced Placement Chemistry *Advanced Placement Environmental Science	* Biology II/ Mammalian Anatomy & Physiology * Biology II/Marine Science Directed Study Science * Advanced Placement Physics B Governor's School for Science & Technology

## BUSINESS & INFORMATION TECHNOLOGY

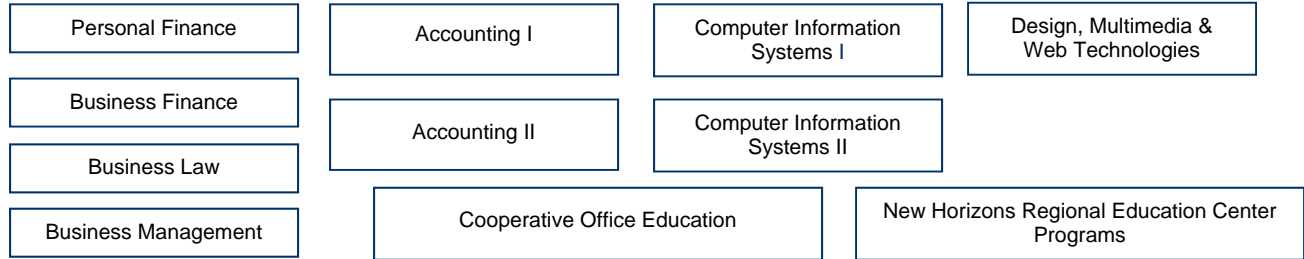
### Suggested Course Sequences

#### **Career/Technical Education**

##### *Foundation Courses*



##### *Occupational Courses*

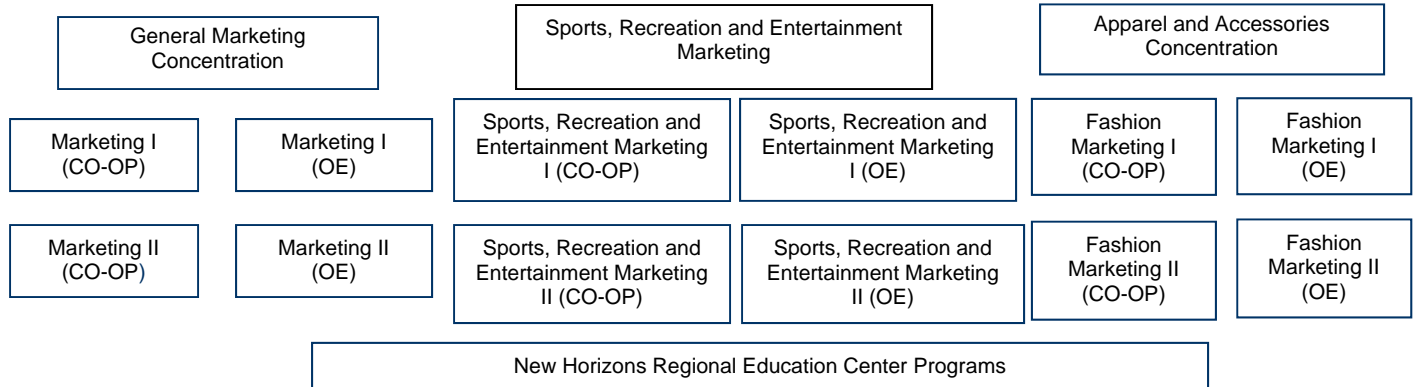
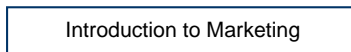


<p><b>Economics and Personal Finance is a required course for students entering ninth grade in 2010.</b></p> <p>NOTE: Career/Technical Education courses prepare students to take industry certification exams.</p>	<p><i>Related Electives (Grades 9-12)</i></p>	<p><i>Requirements for Career/Technical Program Completer in Business &amp; Information Technology:</i></p> <ul style="list-style-type: none"> <li>▪ Any two occupational Business &amp; Informational Technology courses (or semester equivalents that equal two 36-week courses)</li> </ul>
	<p>Life Planning Career Mentorship Service Learning Directed Study Business &amp; Information Technology</p>	

## MARKETING

### Suggested Course Sequences

#### **Career/Technical Education**

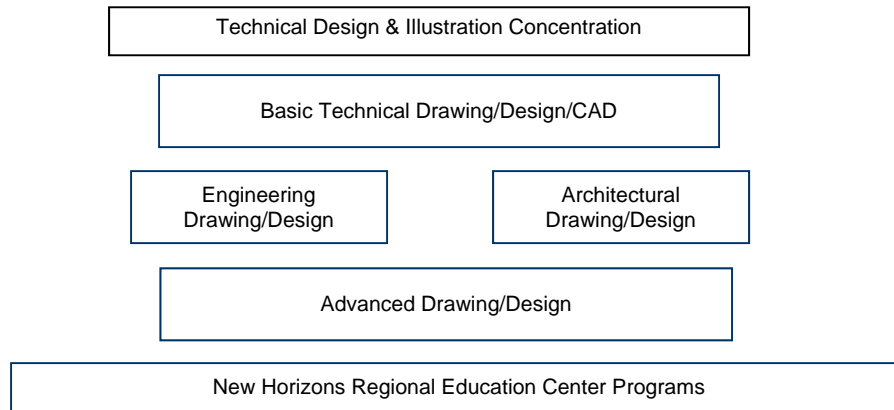


<p>NOTE: Career/Technical Education courses prepare students to take industry certification exams.</p>	<p><i>Related Electives (Grades 9-12)</i></p>	<p><i>Requirements for Career/Technical Program Completer in Marketing Education:</i></p> <ul style="list-style-type: none"> <li>▪ One 36-week Marketing course with Cooperative Education (CO-OP)</li> <li style="text-align: center;"><b>or</b></li> <li>▪ Two 36-week sequential Marketing courses with Occupational Experiences (OE)</li> </ul>
	<p>Life Planning Career Mentorship Service Learning</p>	

## TECHNOLOGY EDUCATION

### Suggested Course Sequences

#### **Career/Technical Education**

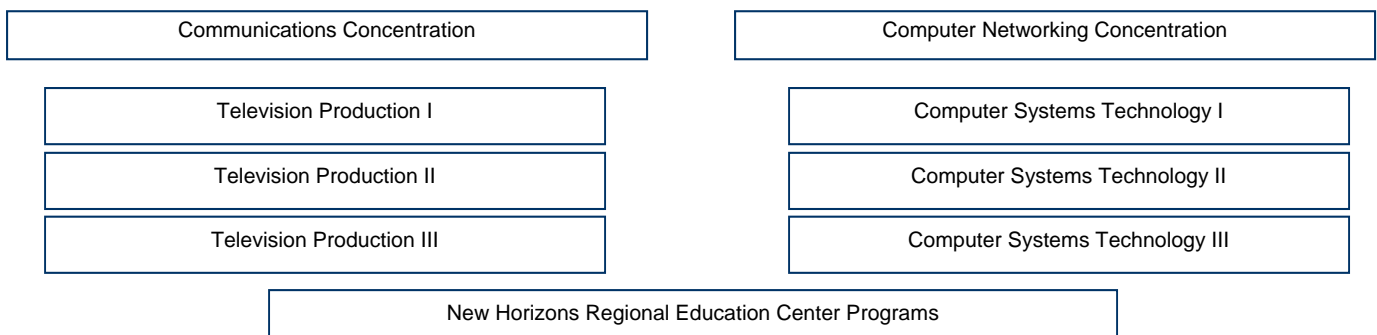


<p>NOTE: Career/Technical Education courses prepare students to take industry certification exams.</p>	<p><i>Related Electives (Grades 9-12)</i></p>	<p><i>Requirements for Career/Technical Program Completer in Technology Education:</i></p> <ul style="list-style-type: none"> <li>▪ Two 36-week Technology Education courses in a concentration sequence</li> </ul>
	<p>Life Planning Career Mentorship Service Learning Directed Study Technology Education Technology Foundations Introduction to Engineering</p>	

## TRADE & INDUSTRIAL EDUCATION

### Suggested Course Sequences

#### **Career/Technical Education**



<p>NOTE: Career/Technical Education courses prepare students to take industry certification exams.</p>	<p><i>Related Electives (Grades 9-12)</i></p>	<p><i>Requirements for Career/Technical Program Completer in Trade &amp; Industrial Education:</i></p> <ul style="list-style-type: none"> <li>▪ Two 36-week Trade &amp; Industrial Education courses</li> </ul>
	<p>Life Planning Career Mentorship Service Learning</p>	

## SIX-YEAR SECONDARY SCHOOL PLAN

### Preparing Your Six-Year Secondary School Plan


#### What You Need to Know

The sample forms on the following pages are designed to help students think about their goals and draft a plan for their individual secondary program of study. The Six-Year Plan may change, of course, as students progress through middle and high school and learn more about their abilities, interests, and the opportunities available to them. Since new courses may be added to the Program of Studies, guidance counselors will work with students and parents to update the Six-Year Plan each year and to assist students in the registration process for the next year's courses. When drafting this Six-Year Plan, students and parents should refer to the diploma requirements (pp. 10), suggested course sequences (pp. 13-16), and course descriptions (pp. 39-104) in this registration guide. Guidance counselors are always ready to assist with scheduling information, requirements, and planning strategies.

#### Getting Started

**Sample 1** is an example of a Standard Diploma (22-credit) Six-Year Plan, and **Sample 2** is an example of an Advanced Studies Diploma (26-credit) Six-Year Plan. **Sample 3** is an example of a Standard Technical Diploma, and **Sample 4** is an example of an Advanced Technical Diploma. Boxes marked "Elective" are diploma requirements for graduation, and boxes marked "Student Choice" are additional electives that are chosen by the student. On the following page is a blank Six-Year Plan for students and parents to use as they begin to plan for courses that meet students' individual educational and career objectives. NOTE: The plan for a student seeking the Modified Standard Diploma will be developed in conjunction with the student's IEP.

Keep in mind that these are tentative plans and that students and parents will need to review plans annually with a guidance counselor to make adjustments as necessary. **Good luck as you chart your course for success in school.**

		Standard Diploma (22-credit) / Six-Year Plan for students entering 9 <sup>th</sup> grade in 2011 and beyond				
		Grade 7	Grade 8	Grade 9	Grade 10	Grade 11
1	English 7	English 8	English 9	English 10	English 11	English 12
2	US History II: 1877 to the Present (7)	Civics and Economics	World History I	World History II	VA & U.S. History	VA & U.S. Government
3	Foundations of Algebra Part II**	Foundations of Algebra III**	Algebra I	Geometry	Math Choice	Elective
4			Earth Science	Biology I	Chemistry I	Elective
5	Life Science	Physical Science	Health/PE 9	Health/PE 10	Elective	Elective
6	Health/PE 7	Health/PE 8	World Language / Fine Arts / Career and Technical	World Language / Fine Arts / Career and Technical	Elective	Elective
7	Elective	Elective	Elective	Economics/ Personal Finance <sup>E</sup>	Elective	Elective
8	Elective	Elective	*for BHS, YHS and YRA			

For the **Standard Diploma**, students will complete two (2) credits of World Language, Fine Arts, or Career and Technical Education plus three (3) credits of electives.

<sup>E</sup> Economics and Personal Finance may be taken in grades 9, 10, 11, or 12.

\*\*Students enrolled in Algebra I or Advanced Geometry in middle school will have one additional elective.

<b>SAMPLE 2</b>		<b>Advanced Studies Diploma (26-credit) / Six-Year Plan for students entering 9<sup>th</sup> grade in 2011 and beyond</b>				
Class	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	English 7	English 8	English 9	English 10	English 11	English 12
2	US History II: 1877 to the Present (7)	Civics and Economics	World History I	World History II	VA & U.S. History	VA & U.S. Government
3	Foundations of Algebra II**	Foundations of Algebra III**	Algebra I	Geometry	Algebra II	Math Choice
4			Earth Science	Biology I	Chemistry I	Science Elective
5	Life Science	Physical Science	Health/PE 9	Health/PE 10	Fine Arts/ Career and Technical	Elective / Career and Technical
6	Health/PE 7	Health/PE 8	World Language	World Language	World Language	World Language/ Elective
7	Elective	Elective	Elective	Economics/ Personal Finance <sup>E</sup>	Elective	Elective
8	Elective	Elective	Additional elective to students at BHS, YHS, & YRA			

For the **Advanced Studies Diploma**, students will complete three (3) credits of electives.

<sup>E</sup> Economics and Personal Finance may be taken in grades 9, 10, 11, or 12.

\*\*Students enrolled in Algebra I or Advanced Geometry in middle school will have one additional elective.

<b>SAMPLE 3</b>		<b>Standard TECHNICAL (22-credit) / Six-Year Plan for students entering 9<sup>th</sup> grade in 2011 and beyond</b>				
Class	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1	English 7	English 8	English 9	English 10	English 11	English 12
2	US History II: 1877 to the Present (7)	Civics and Economics	World History I	World History II	VA & U.S. History	VA & U.S. Government
3	Foundations of Algebra Part II**	Foundations of Algebra III**	Algebra I	Geometry	Algebra Functions and Data Analysis or Algebra II	Math Choice
4			Earth Science	Biology I	Chemistry I	Elective
5	Life Science	Physical Science	Health/PE 9	Health/PE 10	Elective	Career and Technical
6	Health/PE 7	Health/PE 8	World Language / Fine Arts / Career and Technical	World Language / Fine Arts / Career and Technical	Career and Technical	Career and Technical
7	Elective	Elective	Elective	Economics/ Personal Finance <sup>E</sup>	Elective	Elective/ Career and Technical
8	Elective	Elective	Additional elective at BHS, YHS, & YRA			

For the **Standard Technical Diploma**, students will complete one (1) credit of World Language or Fine Arts plus four (4) credits of Career and Technical Education.

<sup>E</sup> Economics and Personal Finance may be taken in grades 9, 10, 11, or 12

\*\*Students enrolled in Algebra I or Advanced Geometry in middle school will have one additional elective..

<b>SAMPLE 4</b>		<b>Advanced TECHNICAL Diploma (26-credit) / Six-Year Plan for students entering 9<sup>th</sup> grade in 2011 and beyond</b>				
<b>Class</b>	<b>Grade 7</b>	<b>Grade 8</b>	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
1	English 7	English 8	English 9	English 10	English 11	English 12
2	US History II: 1877 to the Present (7)	Civics and Economics	World History I	World History II	VA & U.S. History	VA & U.S. Government
3	Foundations of Algebra II**	Foundations of Algebra III**	Algebra I	Geometry	Algebra II	Math Choice
4			Earth Science	Biology I	Chemistry I	Science Choice
5	Life Science	Algebra I	Health/PE 9	Health/PE 10	Fine Arts/Career and Technical	Career and Technical
6	Health/PE 7	Physical Science	World Language	World Language	World Language	Elective
7	Elective	Health/PE 8	Elective	Economics/ Personal Finance <sup>E</sup>	Career and Technical	Career and Technical
8	Elective	Elective	Additional elective for students at BHS, YHS, & YRA			

For the **Advanced Technical Diploma**, student will complete three (3) credits of Career and Technical Education plus (1) credit of Fine Arts OR a fourth credit of Career and Technical Education.

<sup>E</sup> *Economics and Personal Finance may be taken in grades 9, 10, 11, or 12.*

**\*\****Students enrolled in Algebra I or Advanced Geometry in middle school will have one additional elective.*



# YOUR SIX-YEAR PLAN

Class	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
1						
2						
3						
4						
5						
6						
7						
8						

# The 16 Career Clusters







## Career Clusters Prepare All Students for College and Careers

Technological advances and global competition have transformed the nature of work. Tomorrow's jobs will require more knowledge, better skills, and more flexible workers than ever before. Tomorrow's workers must be prepared to change jobs and careers several times, continually updating their knowledge and skills.

Career clusters link what students learn in school with the knowledge and skills they need for success in college and careers.

Career clusters identify pathways from secondary school to two- and four-year colleges, graduate school, and the workplace, so students can learn in school and what they can do in the future. This connection to future goals motivates students to work harder and enroll in more rigorous courses.

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

 <b>Health Science</b>	<p>Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.</p>
 <b>Hospitality &amp; Tourism</b>	<p>Hospitality &amp; Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.</p>
 <b>Human Services</b>	<p>Preparing individuals for employment in career pathways that relate to families and human needs.</p>
 <b>Information Technology</b>	<p>Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.</p>
 <b>Law, Public Safety, Corrections &amp; Security</b>	<p>Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.</p>
 <b>Manufacturing</b>	<p>Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.</p>
 <b>Marketing</b>	<p>Planning, managing, and performing marketing activities to reach organizational objectives.</p>
 <b>Science, Technology, Engineering &amp; Mathematics</b>	<p>Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.</p>
 <b>Transportation, Distribution &amp; Logistics</b>	<p>Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.</p>



**Career Clusters' icons are being used with permission of the:**  
 States' Career Clusters Initiative, 2006,  
[www.careerclusters.org](http://www.careerclusters.org)

## SAMPLE Occupations Related to this Career Cluster



- |  |   |
|--|---|
| Agricultural Chemical Dealer<br>Aquaculturalist<br>Bank/Loan Office<br>Environmental Compliance-Assurance Manager<br>Equine Manager<br>Farm Manager<br>Health and Safety Sanitarian<br>Meat Cutter-Meat Grader<br>Park Manager | Produce Buyer<br>Recycling Technician<br>Wildlife Manager<br>Agricultural Educator<br>Botanist<br>Ecologist<br>Environmental Engineer<br>Fish and Game Officer<br>Plant Pathologist<br>Veterinarian |
|--|---|

*Courses in this Career Cluster are suggested only and should be selected based on individual student's career plan.*

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required or Recommended	Other Related Electives
<b>SECONDARY</b>	7th - 8th	English or Adv. English	Foundations of Algebra II or III Algebra I, or Adv. Geometry	Life Science Physical Science	US History Civics	Health & PE World Language I World Language II	<b>General Topics</b> <b>98269</b> Introduction to Forensic Science (S) <b>982805</b> Exploring Our World (GT) The York County School Division offers the following courses related to this Career Cluster <a href="#">Science:</a> <b>4340</b> Ecology & Environmental Science  <b>New Horizons Career &amp; Technical Center</b> <b>8088</b> Veterinary Science <b>8083</b> Veterinary Science
	9	English 9 or Adv. English 9	Algebra I, Geometry, or Algebra II	Earth Science or Biology	World History I	Health & PE 9 World Language I	
	10	English 10 or Adv. English 10	Geometry	Biology or Chemistry	World History II	Health & PE 10 World Language II	
	11	English 11 or AP English 11	Algebra II or other math choice	Chemistry or Science Choice	US History or AP US History	Economics & Personal Finance World Language III	
	12	English 12 or AP English 12	<i>Math Choice</i>	<i>Science Choice</i>	US Government or AP US Government	<i>Continue courses pertinent to the pathway selected.</i>	
	<b>POSTSECONDARY</b>	Year 13	English Composition	Algebra	<i>Dependent on chosen pathway</i>	American Government	
Year 14		Speech/Oral Communication	<i>Dependent on chosen pathway</i>	<i>Dependent on chosen pathway</i>	American History Geography		
Year 15		Technical Writing	Statistics	<i>Dependent on chosen pathway</i>	<i>Dependent on chosen pathway</i>		
Year 16		Continue courses in the area of specialization.					

## SAMPLE Occupations Related to this Career Cluster



- |   |  |
|---|--|
| Architect<br>Carpenter<br>Civil Engineer<br>Construction Foreman/Manager<br>Contractor<br>Demolition Engineer<br>Drafter<br>Drywall Installer<br>Electrician<br>Electronic Systems Technician<br>Equipment/Material Manager<br>General Contractor/Builder | Heating, Ventilation, Air Conditioning Mechanic<br>Interior Designer<br>Painter<br>Paperhanger<br>Plumber<br>Project Estimator<br>Project Inspector<br>Roofer<br>Safety Director<br>Sheet Metal Worker<br>Tile and Marble Setter |
|---|--|

*Courses in this Career Cluster are suggested only and should be selected based on individual student's career plan.*

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required or Recommended	Other Related Electives
SECONDARY	7th - 8th	English or Adv. English	Foundations of Algebra II or III Algebra I, or Adv. Geometry	Life Science Physical Science	US History Civics	Health & PE World Language I World Language II	<b>8481</b> Intro to Technology <b>8464</b> Inventions & Innovations  The York County School Division offers the following courses related to this career cluster:  <a href="#">Technology Education</a>  <b>8437</b> Architectural Drawing / Design / CAD  <a href="#">New Horizons Career &amp; Technical Center</a>  <b>8600</b> Basic Carpentry <b>8601</b> Carpentry I <b>8602</b> Carpentry II <b>8503/8504</b> Heating/Ventilation/Air Condition (HVAC Mechanical) I and II
	9	English 9 or Adv. English 9	Algebra I, Geometry, or Algebra II	Earth Science	World History I	Health & PE 9 World Language I	
	10	English 10 or Adv. English 10	Geometry	Biology	World History II	Health & PE 10 World Language II	
	11	English 11 or AP English 11	Algebra II	Physics	US History or AP US History	Economics & Personal Finance World Language III	
	12	English 12 or AP English 12	<i>Math Choice</i>	Chemistry	US Government or AP US Government		
	Year 13	English Composition English Literature	<i>Dependent on chosen pathway</i>	Physics	American Govt. or History, plus Psychology / Interpersonal Skills	<i>Continue courses pertinent to the pathway selected</i>	
	Year 14	Speech/Oral Communication	<i>Dependent on chosen pathway</i>	Environmental Science	Sociology Business Law		
Year 15	<i>Continue courses in the area of specialization.</i>						
Year 16							
POSTSECONDARY							

## SAMPLE Occupations Relating to This Career Cluster



- Actor
- Audio-Video Designer and Engineer
- Broadcast Technician
- Commercial Artist
- Computer Animator
- Curator/Gallery Manager Director and Coach
- Fashion Designer
- Journalist
- Lithographer
- Musician
- Printing Equipment Operator
- Telecommunication Technician Videographer
- Web Page Design

*Courses within this Career Cluster are suggested only and should be selected based on individual student's career plan.*

EDUCATION LEVELS	GRADE	English / Language Arts	Math	Science	Social Studies / Sciences	Other Required or Recommended	Other Related Electives
SECONDARY	7th-8th	English or Adv. English	Foundations of Algebra II or III, Algebra I, or Adv. Geometry	Life Science Physical Science	US History Civics	Health & PE World Language I World Language II	Art / Drama / Band / Chorus/Yearbook / Public Speaking <b>8481</b> Intro to Technology <b>8464</b> Inventions & Innovations
	9	English 9 or Adv. English 9	Algebra I, Geometry, or Algebra II	Earth Science	World History I	Health & PE 9 World Language I	The York County School Division offers the following courses related to this Career Cluster: <a href="#">Business and Information Technology</a> <b>6630</b> Design, Multimedia & Web Technologies
	10	English 10 or Adv. English 10	Geometry or Algebra II	Biology	World History II	Health & PE 10 World Language II	<a href="#">Trade &amp; Industrial Education</a>
	11	English 11or AP English 11	<i>Math Choice</i>	Physics	US History or AP US History	Economics & Personal Finance World Language III	<b>8688</b> Television Production I <b>8689</b> Television Production II <b>8690</b> Television Production III
	12	English 12 or AP English 12	<i>Math Choice</i>	<i>Science Choice</i>	US Government or AP US Govt.		<a href="#">Art</a> <a href="#">Drama</a> <a href="#">Music</a>
	Year 13	English Composition English Literature	<i>Dependent on chosen pathway</i>	Chemistry	American Govt. Psychology	<i>Continue coursework pertinent to the pathway selected.</i>	<a href="#">English</a> <b>1201/12001</b> Literary Magazine / Mass Media <b>1201/1211</b> Newspaper / Mass Media I & II
POSTSECONDARY	Year 14	Speech/Oral Communication	Computer Applications	<i>Dependent on chosen pathway</i>	<i>Dependent on chosen pathway</i>	<a href="#">Courses in theatre related to this career cluster are available at School of the Arts (BHS)</a>	
	Years 15/16	Continue courses in the area of specialization.					<a href="#">Courses in Web Design related to this career cluster are available at York River Academy</a>

## SAMPLE Occupations Relating to this Career Cluster



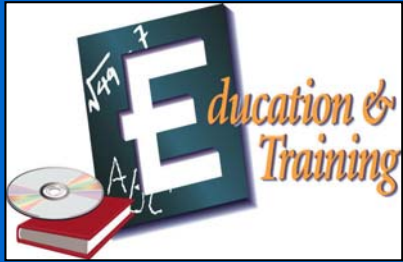
Administrative Assistant  
 Advertising Sales Person  
 Auditor  
 Business Consultant  
 Certified Public Accountant  
 Corporate Trainer  
 E-Commerce Analyst  
 Entrepreneur  
 Facilities Manager  
 Finance Director

Human Resources Manager  
 Investment Executive  
 Marketing Analyst  
 Medical Transcriptionist  
 Office Manager  
 OSHA/ADA Compliance Officer  
 Personnel Recruiter  
 Public Relations Manager  
 Sales Representative  
 Wholesale and Retail Buyer

Courses listed within this plan are suggested only and should be selected based on individual student's career plan.

EDUCATION LEVELS	GRADE	English / Language Arts	Math	Science	Social Studies / Sciences	Other Required or Recommended	Other Related Electives
SECONDARY	7th-8th	English or Adv. English	Foundations of Algebra II or III, Algebra I, or Adv. Geometry	Life Science Physical Science	US History Civics	Health & PE World Language I World Language II	<b>61507 / 61508</b> Keyboarding/Computer Applications I & II <b>982804</b> Middle School Public Speaking  The York County School Division offers the following courses related to this Career Cluster  <a href="#">Business and Information Technology</a> <b>6616</b> Computer Applications <b>6617</b> Computer Applications  <a href="#">Marketing Education</a> <b>8110</b> Introduction to Marketing <b>81201/81301</b> Marketing I & II / CO-OP <b>81202/81302</b> Marketing I & II / OE <b>81401/81451</b> Fashion Marketing I & II/ CO-OP <b>81402/81452</b> Fashion Marketing I & II / OE <b>81751/81771</b> Sports, Recreation & Entertainment Marketing I & II/ CO-OP <b>81752/81772</b> Sports, Recreation & Entertainment Marketing I & II/ OE
	9	English 9 or Adv. English 9	Algebra I, Geometry, or Algebra II	Earth Science or Biology	World History I	Health & PE 9 World Language I	
	10	English 10 or Adv. English 10	Geometry or Algebra II	Biology or Chemistry	World History II	Health & PE 10 World Language II	
	11	English 11 or AP English 11	Pre-Calculus or Algebra II	Chemistry or Physics	U.S. History or AP US History	Economics & Personal Finance World Language III	
	12	English 12 or AP English 12	Pre-Calculus or Calculus or Trigonometry or Statistics	Physics or other science course	US Government or AP US Government	<i>Continue courses pertinent to the pathway selected</i>	
	Year 13	English Composition English Literature	Algebra or Calculus	Lab Science	Economics Psychology		
Year 14	Speech/Oral Communication Technical Writing	<i>Dependent on chosen pathway</i>		<i>Dependent on chosen pathway</i>			
Year 15	Continue courses in the area of specialization.						
Year 16	Continue courses in the area of specialization.						
POSTSECONDARY							

## SAMPLE Occupations Relating to this Career Cluster



Administrator  
 Assessment Specialist  
 Career Tech Administrator  
 Child Care Worker  
 Clinical Psychologist  
 Coach

College/University Faculty  
 Counselor  
 Curriculum Developer  
 Elementary Teacher  
 High School Teacher  
 Middle School Teacher  
 Principal

*Courses listed within this Career Cluster are suggested only and should be based on individual student's career plan*

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required or Recommended	Other Related Electives
SECONDARY	7 <sup>th</sup> - 8 <sup>th</sup>	English or Adv. English	Foundations of Algebra II or III, Algebra I, or Adv. Geometry	Life Science Physical Science	US History Civics	Health & PE World Language I World Language II	<p><b>Art / Band / Drama / Chorus</b>  <b>61507/ 61508</b> Keyboarding/                      Computer Applications I &amp; II  <b>982804</b> Middle School Public                      Speaking</p> <p>The York County School                      Division offers the following                      courses related to this Career                      Cluster:</p> <p><a href="#">New Horizons Regional                      Education Center</a></p> <p><b>8285/8286</b> Early Childhood                      Education I / II</p>
	9	English 9 or Adv. English 9	Algebra I, Geometry, or Algebra II	Earth Science or Biology	World History I or AP Human Geography	Health & PE 9 World Language I Fine Arts	
	10	English 10 or Adv. English 10	Geometry or Algebra II	Biology or Chemistry	World History II or AP European History	Health & PE 10 World Language II Fine Arts	
	11	English 11 or AP English 11	Algebra II or Probability & Statistics	Chemistry or Physics	US History or AP US History Psychology	Economics & Personal Finance World Language III Fine Arts	
	12	English 12 or AP English 12	Statistics Calculus or other math choice	Physics or other Science Elective	US Government or AP US Government		
	Year 13	English Composition English Literature	Algebra	Chemistry	Psychology American History		
POSTSECONDARY	Year 14	Speech/Oral Communication	Computer Applications	Biological Science Physical Science	Geography and Educational Psychology	<i>Continue courses pertinent to the pathway selected.</i>	
	Year 15	Technical Communication	Tests and Measurements		Political Science Sociology		
	Year 16+		<i>Dependent on chosen pathway</i>		Economics Philosophy of Educ.		

## SAMPLE Occupations Relating to this Career Cluster



- |   |  |
|---|--|
| Abstractor<br>Accountant<br>Actuary<br>Bill and Account Collector<br>Commodities Representative<br>Controller<br>Credit Analyst<br>Debt Counselor<br>Economist<br>Financial Planner<br>Foreign Exchange Manager | Fund Raiser<br>Insurance Broker<br>Internal Auditor<br>Loan Officer<br>No-Profit Manager<br>Tax Examiner<br>Title Researcher and Examiner<br>Treasurer<br>Trust Officer<br>Underwriter |
|---|--|

*Courses listed within this Career Cluster plan are suggested only and should be selected based on individual student's career plan.*

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required or Recommended	Other Related Electives
<b>SECONDARY</b>	7th - 8th	English or Adv. English	Foundations of Algebra II or III, Algebra I, or Adv. Geometry	Life Science Physical Science	US History Civics	Health & PE World Language I World Language II	The York County School Division offers the following courses related to this Career Cluster:  <a href="#">Business &amp; Information                      Technology</a>  61211 Financial Planning 61212 Business Finance 6320 Accounting I 6321 Accounting II
	9	English 9 or Adv. English 9	Algebra I, Geometry, or Algebra II	Earth Science or Biology	World History I	Health & PE 9 World Language I	
	10	English 10 or Adv. English 10	Geometry or Algebra II	Biology or Chemistry	World History II	Health & PE 10 World Language II	
	11	English 11 or AP English II	Pre-Calculus or Algebra II	Chemistry or Physics	US History or AP US History Psychology	Economics & Personal Finance World Language III	
	12	English 12 or AP English 12	Pre-Calculus or Calculus or Trigonometry or Statistics	Physics or other science choice	US Government or AP US Government		
	Year 13	English Composition English Literature	Algebra or Calculus	Lab Science	Economics Psychology		
<b>POSTSECONDARY</b>	Year 14	Speech/Oral Communication Technical Writing			Sociology Public Policy	<i>Continue courses                      pertinent to the                      pathway selected.</i>	
	Year 15	Continue courses in the area of specialization.					
	Year 16						
	Year 16						

## SAMPLE Occupations Relating to this Career Cluster



Ambassador Bank Examiner City Manager Combat Control Officer Commissioner Cryptographer Election Supervisor	Elected Official Foreign Service Officer Immigration Officer Intelligence Analyst Internal Revenue Investigator Lobby
---	--

*Courses listed within this Career Cluster are suggested only and should be selected based on individual student's career plan.*

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required or Recommended	Other Related Electives
SECONDARY	7th - 8th	English or Adv. English	Foundations of Algebra II or III, Algebra I, or Adv. Geometry	Life Science Physical Science	US History Civics	Health & PE World Language I World Language II	61507 / 61508 Keyboarding / Computer Applications I & II 982805 Exploring Our World  The York County School Division offers the following courses related to this Career Cluster:  <a href="#">Naval Science</a>  79130Naval Science I 79160Naval Science II 79180Naval Science III 79190Naval Science IV
	9	English 9 or Adv. English 9	Algebra I, Geometry, or Algebra II	Earth Science	World History I or AP Human Geography	Health & PE 9 World Language I	
	10	English 10 or Adv. English 10	Geometry or Algebra II	Biology	World History II or AP European History	Health & PE 10 World Language II	
	11	English 11 or AP English 11	<i>Math Choice</i>	<i>Science Choice</i>	US History or AP US History	Economics & Personal Finance World Language III	
	12	English 12 or AP English 12	<i>Math Choice</i>	Physics or Science Choice	US Government or AP US Government		
POSTSECONDARY	Year 13	English Composition Foreign Language I	<i>Dependent on chosen pathway</i>	Chemistry Environmental Science	<i>Dependent on chosen pathway</i>	<i>Continue courses pertinent to the pathway selected.</i>	
	Year 14	Speech/Oral Communication Foreign Language II	<i>Dependent on chosen pathway</i>	Biological Science or Botany	<i>Dependent on chosen pathway</i>		
	Year 15		<i>Dependent on chosen pathway</i>	<i>Dependent on chosen pathway</i>	<i>Dependent on chosen pathway</i>		
	Year 16	Continue courses in the area of specialization.					

## SAMPLE Occupations Relating to this Career Cluster



- |  |  |
|--|--|
| Dental Assistant/Hygienist<br>EMT/Paramedic<br>Health Information Coder<br>Home Health Aide<br>Lab Technician<br>Phlebotomist<br>Radiographer<br>Registered Nurse<br>Biochemist<br>Biostatistician | Geneticist<br>Industrial Hygienist<br>Nutritionist<br>Occupational Therapist<br>Physician (MD/DO)<br>Physician's Assistant<br>Psychologist<br>Radiologist<br>Research Scientist<br>Speech Language Pathologist<br>Toxicologist<br>Veterinarian |
|--|--|

*Courses in this Career Cluster are suggested only and should be selected based on students' individual career plan.*

EDUCATION LEVELS	GRADE	English / Language Arts	Math	Science	Social Studies / Sciences	Other Required or Recommended	Other Related Electives
SECONDARY	7th - 8th	English or Adv. English	Foundations of Algebra II or III, Algebra I, or Adv. Geometry	Life Science Physical Science	US History Civics	Health & PE World Language I World Language II	<b>General Topics</b> 98269 Introduction to Forensic Science  The York County School Division offers the following courses related to this Career Cluster: <a href="#">Health &amp; Medical Sciences (BHS)</a> 8302 Introduction to Health & Medical Sciences 8383 Medical Terminology 9097 Leadership Development <a href="#">New Horizons Regional Education Center</a> 8088/8083 Veterinary Science 8328/8329 Dental Assistant I / II 8333/8334 Emergency Medical Technician 8345/8346 Medical Assistant 8360/8362 Nursing Assistant 8305/8306 Pharmacy Technician
	9	English 9 or Adv. English 9	Algebra I, Geometry, or Algebra II	Biology	World History I	Health & PE 9 World Language I	
	10	English 10 or Adv. English 10	Geometry or Algebra II	Chemistry	World History II	Health & PE 10 World Language II	
	11	English 11 or AP English 11	Algebra II or other math choice	<i>Science Choice</i>	US History or AP US History	Economics & Personal Finance World Language III	
	12	English 12 or AP English 12	<i>math choice</i>	<i>Science Choice</i>	US Government or AP US Government		
	POSTSECONDARY	Year 13	English Composition	<i>Dependent on chosen pathway</i>	<i>Dependent on chosen pathway</i>	American Govt. Psychology	
Year 14		Speech/Oral Communication Technical Writing	<i>Dependent on chosen pathway</i>	<i>Dependent on chosen pathway</i>	American History Sociology		
Year 15		Continue courses in the area of specialization.					
Year 16							

## SAMPLE Occupations Relating to this Career Cluster



Baker  
Bartender  
Casino Manager  
Caterer  
Concierge

Convention Services Manager  
Director of Operations - Lodging  
Director of Tourism – Travel  
Event Planner  
Executive Chef  
Facilities Manager

*Courses in this Career Cluster are suggested only and should be selected based on individual student's career plan.*

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies / Sciences	Other Required or Recommended	Other Related Electives
SECONDARY	7th - 8th	English or Adv. English	Foundations of Algebra II or III, Algebra I, or Adv. Geometry	Life Science Physical Science	US History Civics	Health & PE World Language I World Language II	<b>61507 / 61508</b> Keyboarding/Computer Applications <b>982805</b> Middle School Public Speaking
	9	English 9 or Adv. English 9	Algebra I, Geometry, or Algebra II	Earth Science	World History I	Health & PE 9 World Language I	The York County School Division offers the following courses related to this Career Cluster  <a href="#">Marketing Education</a> <b>8110</b> Introduction to Marketing <b>81751/81771</b> Sports, Recreation & Entertainment Marketing I & II/ CO-OP <b>81752/81772</b> Sports, Recreation & Entertainment Marketing I & II/OE  <a href="#">New Horizons Regional                      Education Center</a> <b>8275/8276</b> Culinary Arts I / II
	10	English 10 or Adv. English 10	Geometry	Biology	World History II	Health & PE 10 World Language II	
	11	English 11 or AP English 11	Algebra II	Chemistry	US History or AP US History	Economics & Personal Finance World Language III	
	12	English 12 or AP English 12	Research or Statistics or Finance/Accounting	Physics	US Government or AP US Government Psychology		
POSTSECONDARY	Year 13	English Composition English Literature	Algebra Statistics	<i>Dependent on chosen pathway</i>	Political Science Economics	<i>Continue courses pertinent to the pathway selected.</i>	
	Year 14	Speech/Oral Communication	<i>Dependent on chosen pathway</i>	<i>Dependent on chosen pathway</i>	Sociology Psychology		
	Year 15	Continue courses in the area of specialization.					
	Year 16						

## SAMPLE Occupations Relating to this Career Cluster



- |  |   |
|--|---|
| Buyer<br>Certified Financial Planner<br>Community Service Director<br>Consumer Advocate<br>Cosmetologist<br>Director/Childcare Facility<br>Emergency/Relief Worker | Esthetician<br>Funeral Director<br>Licensed Professional Counselor<br>Market Researcher<br>Massage Therapist<br>Personal Fitness Trainer<br>School Counselor /Psychologist<br>Small Business Owner<br>Social Worker |
|--|---|

*Courses within this Career Cluster are suggested only, and should be selected based on individual student's career plan.*

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required or Recommended	Other Related Electives
SECONDARY	7th - 8th	English or Adv. English	Foundations of Algebra II or III, Algebra I, or Adv. Geometry	Life Science Physical Science	US History Civics	Health & PE World Language I World Language II	<b>8263</b> Family & Consumer Science Exploratory II <b>8244</b> Family & Consumer Science Exploratory III
	9	English 9 or Adv. English 9	Algebra I, Geometry, or Algebra II	Earth Science	World History I	Health & PE 9 World Language I	The York County School Division offers the following courses related to this Career Cluster:  <a href="#">Business &amp; Information Technology</a> <b>61212</b> Business Finance <b>6132</b> Business Law <b>6136</b> Business Management <b>6135</b> Business Management  <a href="#">New Horizons Regional Education Center</a>  <b>8527/8528</b> Cosmetology I / II  <a href="#">Health and PE</a>
	10	English 10 or Adv. English 10	Geometry or Algebra II	Biology	World History II	Health & PE 10 World Language II	
	11	English 11 or AP English 11	Algebra II or other Math Choice	Chemistry	US History or AP US History Sociology	Economics & Personal Finance World Language III	
	12	English 12 or AP English 12	<i>Math Choice</i>	<i>Science Choice</i>	US Government or AP US Government Psychology		
	Year 13	English Composition	Algebra	<i>Dependent on chosen pathway</i>	American Govt. Psychology	<i>Continue courses pertinent to the pathway selected.</i>	
Year 14	<i>Dependent on chosen pathway</i>	Statistics	<i>Dependent on chosen pathway</i>	<i>Dependent on chosen pathway</i>			
Year 15	<i>Dependent on chosen pathway</i>			<i>Dependent on chosen pathway</i>			
Year 16	Continue courses in the area of specialization.						

## SAMPLE Careers Relating to this Career Cluster

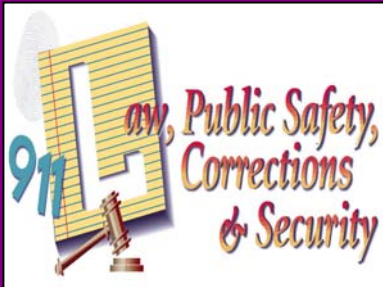


- Animator
- Database Administrator
- Data Systems Designer
- E-Business Specialist
- Game Developer
- Information Technology Engineer
- Media Specialist
- Network Administrator
- Network Security Analyst
- PC Support Specialist
- Programmer
- Software Applications Specialist
- Systems Administrator
- Telecommunications Network Technician
- User Support Specialist
- Virtual Reality Specialist
- Web Architect/Designer

*Courses within this Career Cluster are suggested only and should be selected based on individual student's career plan.*

EDUCATION LEVELS	GRADE	English / Language Arts	Math	Science	Social Studies/ Sciences	Other Required or Recommended	Other Related Electives
SECONDARY	7th - 8th	English or Adv. English	Foundations of Algebra II or III, Algebra I, or Adv. Geometry	Life Science Physical Science	US History Civics	Health & PE World Language I World Language II	<b>Business &amp; Information Technology</b> 61507 Keyboarding /Computer Applications I 61508 Keyboarding /Computer Applications II  The York County School Division offers the following courses related to this Career Cluster:  <a href="#">Business &amp; Information Technologies</a>  6611 Computer Applications 6617 Computer Applications 6612/3 Computer Information Systems I & II 6630 Design, Multimedia & Web Technologies 6670 Information Technology Fundamentals
	9	English 9 or Adv. English 9	Algebra I, Geometry, or Algebra II	Earth Science	World History I AP World Geography	Health & PE 9 World Language I	
	10	English 10 or Adv. English 10	Geometry or Algebra II	Biology	World History II AP European	Health & PE 10 World Language II	
	11	English 11 or AP English 11	Algebra II or Pre-Calculus or Trigonometry	Chemistry	US History or AP US History	Economics & Personal Finance World Language III	
	12	English 12 or AP English 12	<i>Math Choice</i>	Physics	US Government or AP US Government	<a href="#">Refer to York River Academy for additional Information Technology Courses</a>	
	Year 13	English Composition English Literature	Calculus	Chemistry	American Govt. Psychology	<a href="#">Other courses available at New Horizons Regional Education Center</a>	
POSTSECONDARY	Year 14	Speech/Oral Communication	Computer Applications	Biological Science Physics	American History Geography	<a href="#">Trade &amp; Industrial Education</a>	
	Year 15	Technical Writing				86221/2/3 Computer Systems Technology I, II, III (MCSE) 8622/8623 Computer Networking	
	Year 16	Continue courses in the area of specialization.					

## SAMPLE Careers Relating to this Career Cluster



- |   |  |
|---|--|
| Attorney<br>Bomb Technician<br>Corrections Officer<br>Court Reporter<br>Criminal Investigator<br>EMT<br>Federal Marshall<br>Firefighter<br>Gaming Surveillance Specialist | Hazardous Materials Responder<br>Loss Prevention Specialist<br>Paralegal<br>Park Ranger<br>Police and Patrol Officer<br>Probation/Parole Officer<br>Public Information Officer<br>Security Director<br>Youth Services Worker |
|---|--|

*Courses within this Career Cluster are suggested only and should be selected based on individual student's career plan.*

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required or Recommended	Other Related Electives
<b>SECONDARY</b>	7th - 8th	English or Adv. English	Foundations of Algebra II or III, Algebra I, or Adv. Geometry	Life Science Physical Science	US History Civics	Health & PE World Language I World Language II	<b>General Topics</b> 98269 Intro to Forensic Science 9826 Criminal Justice
	9	English 9 or Adv. English 9	Algebra I, Geometry, or Algebra II	Earth Science	World History I AP Human Geography	Health & PE 9 World Language I	The York County School Division offers the following courses related to this Career Cluster:  <a href="#">Business &amp; Information Technology</a> 6132 Business Law 6135 Business Management 6136 Business Management  <a href="#">New Horizons Regional Education Center</a> 8333/8334 Emergency Medical Technical 8705/8706 Fire Fighter 8702/8703 Law Enforcement / Criminal Justice
	10	English 10 or Adv. English 10	Geometry	Biology	World History II AP European History	Health & PE 10 World Language II	
	11	English 11 or AP English 11	Algebra II	Chemistry	US History or AP US History Psychology	Economics & Personal Finance World Language III	
	12	English 12 or AP English 12	<i>Math Choice</i>	Physics	US Government or AP US Government		
	Year 13	English Composition English Literature	Algebra	Chemistry	American Govt. Psychology	<i>Continue courses pertinent to the pathway selected.</i>	
	Year 14	Speech/Oral Communication	Computer Applications	<i>Dependent on chosen pathway</i>	<i>Dependent on chosen pathway</i>		
Year 15				<i>Dependent on chosen pathway</i>			
Year 16	Continue courses in the area of specialization.						

## SAMPLE Occupations Relating to this Career Cluster



- |  |   |
|--|---|
| Assembler<br>Boilermaker<br>Design Engineer<br>Environmental Engineer<br>Foundry Worker<br>Freight, Stock and Material Mover<br>Health and Safety Representative<br>Industrial Machinery Mechanic<br>Inspector | Labor Relations Manager<br>Logistician<br>Manufacturing Technician<br>Pattern and Model Maker<br>Production Manager<br>Quality Control Technician<br>Safety Engineer<br>SPC Coordinator<br>Tool and Diemaker<br>Traffic Manager<br>Welder |
|--|---|

*Courses within this Career Cluster are suggested only and should be selected based on individual student's career plan.*

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required or Recommended	Other Related Electives
SECONDARY	7th - 8th	English or Adv. English	Foundations of Algebra II or III, Algebra I, or Adv. Geometry	Life Science Physical Science	US History Civics	Health & PE World Language I World Language II	<b>8464</b> Inventions & Innovations (S) <b>8463</b> Technological Systems (S)  The York County School Division offers the following courses related to this Career Cluster:  <a href="#">New Horizons Regional Education Center</a> <b>8539</b> Machine Technology <b>8540</b> Computer Numerical Control (CNC) Machining <b>8672/8673</b> Welding I / II
	9	English 9 or Adv. English 9	Algebra I, Geometry, or Algebra II	Earth Science	World History I	Health & PE 9 World Language I	
	10	English 10 or Adv. English 10	Geometry	Biology	World History II	Health & PE 10 World Language II	
	11	English 11 or AP English 11	Algebra II	Chemistry	US History or AP US History	Economics & Personal Finance World Language III	
	12	English 12 or AP English 12	Trigonometry or Statistics or other math course	Physics	US Government or AP US Government Psychology		
	Year 13	English Composition English Literature	Algebra	Chemistry Physics	American Govt. Psychology	<i>Continue courses pertinent to the pathway selected.</i>	
Year 14	Speech/Oral Communication	Computer Applications	Biological Science Physical Science	American History Geography			
Year 15							
Year 16							
POSTSECONDARY							

**SAMPLE Occupations Related to this Career Cluster**



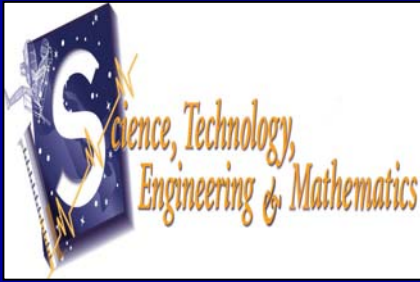
Copywriter/Designer  
 E-Commerce Director  
 Entrepreneur  
 Field Marketing Representative  
 Forecasting Manager  
 Interactive Media Specialist  
 Inventory Manager/Analyst  
 Logistics Manager  
 Merchandise Buyer

On-line Market Researcher  
 Public Relations Manager  
 Merchandise Buyer  
 On-line Market Researcher  
 Public Relations Manager  
 Promotions Manager  
 Retail Marketing Coordinator  
 Sales Executive  
 Shipping/Receiving Clerk  
 Telemarketer  
 Trade Show Manager  
 Warehouse Manager  
 Webmaster

*Courses within this Career Cluster are suggested only and should be selected based on individual student's career plan.*

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Science	Other Required or Recommended	Other Related Electives
SECONDARY	7th - 8th	English or Adv. English	Foundations of Algebra II or III, Algebra I, or Adv. Geometry	Life Science or Physical Science	US History Civics	Health & PE World Language I World Language II	61507 / 61508 Keyboarding / Computer Applications I & II 982805 Middle School Public Speaking (S)  The York County School Division offers the following courses related to this Career Cluster  <a href="#">Marketing Education</a> 8110 Introduction to Marketing 81201/2 Marketing I / CO-OP / OE 81301/2 Marketing II / CO-OP / OE 81401/2 Fashion Marketing I / CO-OP /OE 81451/2 Fashion Marketing II / CO-OP /OE 81751/2 Sports, Recreation & Entertainment Marketing I/ CO-OP /OE 81771/2 Sports, Recreation & Entertainment Marketing II/CO-OP/OE
	9	English 9 or Adv. English 9	Algebra I, Geometry, or Algebra II	Earth Science or Biology	World History I	Health & PE 9 World Language I	
	10	English 10 or Adv. English 10	Geometry or Algebra II	Biology or Chemistry	World History II	Health & PE 10 World Language II	
	11	English 11 or AP English II	Pre-Calculus or Algebra II	Chemistry or Physics	U.S. History Psychology	Economics & Personal Finance World Language III	
	12	English 12 or AP English 12	Pre-Calculus or Calculus or Trigonometry or Statistics	Physics or other Science Choice	US Government or AP US Government		
	Year 13	English Composition English Literature	Algebra or Calculus	Lab Science	Economics Psychology	<i>Continue courses pertinent to the pathway selected</i>	
Year 14	Speech/Oral Communication Technical Writing			Sociology Public Policy			
Year 15	Continue courses in the area of specialization.						
Year 16							

## SAMPLE Occupations Relating to this Career Cluster



Aerospace Engineer  
 Agricultural Engineer  
 Analytical Chemist  
 Anthropologist  
 Architectural Engineer  
 Astrophysicist  
 Biomedical Engineer  
 CAD Technician  
 Civil Engineer

Computer Programmer  
 Ecologist  
 Geologist  
 Geothermal Engineer  
 Math Teacher  
 Mathematician  
 Metallurgist  
 Statistician  
 Survey Technician  
 Zoologist

*Courses within this Career Cluster are suggested only and should be selected based on individual student's career plan.*

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required or Recommended	Other Related Electives
<b>SECONDARY</b>	7th - 8th	English or Adv. English	Foundations of Algebra II or III, Algebra I, or Adv. Geometry	Life Science Physical Science	US History Civics	Health & PE World Language I World Language II	<p><b>Technology Education</b>                      8464 Inventions &amp; Innovations                      8463 Technological Systems</p> <p>The York County School Division offers the following courses related to this Career Cluster</p> <p><a href="#">Technology Education</a>                      8403 Technology Foundations                      8435 Basic Technical Drawing / Design / CAD                      8436 Engineering Drawing / Design / CAD                      8490 Introduction to Engineering</p>
	9	English 9 or Adv. English 9	Algebra I, Geometry, or Algebra II	Biology	World History I	Health & PE 9 World Language I	
	10	English 10 or Adv. English 10	Geometry or Algebra II	Chemistry	World History II	Health & PE 10 World Language II	
	11	English 11 or AP English 11	Algebra II or Trigonometry Pre-Calculus or Statistics	Physics	US History or AP US History	Economics & Personal Finance World Language III	
	12	English 12 or AP English 12	Trigonometry or Pre-Calculus/ Calculus or AP Calculus or Math Analysis	<i>Science Choice</i>	US Government or AP US Government Economics Entrepreneurship	Continue courses pertinent to the pathway selected.	
	Year 13	English Composition English Literature	Algebra or Trigonometry Calculus I Calculus II	Chemistry Physics	Psychology Global Issues	Continue courses in the area of specialization.	
<b>POSTSECONDARY</b>	Year 14	Speech/Oral Communication Professional and Technical Writing	Introduction to Differential Equations Calculus III Statistics	<i>Dependent on chosen pathway</i>	American History Sociology Ethics and Legal Issues	<p><a href="#">Other courses related to this career cluster are available at York River Academy</a></p> <p><b>8557</b> Introduction to Electronics and Robotics <b>8558</b> Advanced Robotics and Fiberoptics</p>	
	Year 15	Continue courses in the area of specialization.					
	Year 16						
	Year 16						

## SAMPLE Occupations Related to this Career Cluster



Airplane Pilot/Co-Pilot  
 Air Traffic Controller  
 Avionics Technician  
 Cargo and Freight Agent  
 Customs Inspector  
 Environmental Manager  
 Facility Engineer  
 Industrial Equipment Mechanic  
 Industrial and Packaging Engineer  
 International Logistics Specialist

Industrial and Packaging Engineer  
 International Logistics Specialist  
 Locomotive Engineer  
 Marine Captain  
 Port Manager  
 Safety Analyst  
 Storage and Distribution Manager  
 Transportation Manager  
 Truck Driver  
 Urban and Regional Planner  
 Warehouse Manager

*Courses within this Career Cluster are suggested only and should be selected based on individual student's career plan*

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required or Recommended	Other Related Electives
SECONDARY	7th - 8th	English or Adv. English	Foundations of Algebra II or III, Algebra I, or Adv. Geometry	Life Science Physical Science	US History Civics	Health & PE World Language I World Language II	The York County School Division offers the following courses related to this Career Cluster:  <a href="#">New Horizons Regional                      Education Center</a>  8675 Auto Body Prep 8676 / 8677 Auto Body Repair I / II 8710/1 Auto Maintenance 8506 / 8507 Auto Technology I / II
	9	English 9 or Adv. English 9	Algebra I, Geometry, or Algebra II	Biology	World History I	Health & PE 9 World Language I	
	10	English 10 or Adv. English 10	Geometry or Algebra II	Chemistry	World History II	Health & PE 10 World Language II	
	11	English 11 or AP English 11	Algebra II or Pre-Calculus or Trigonometry	Physics	US History or AP US History	Economics & Personal Finance World Language III	
	12	English 12 or AP English 12	Pre-Calculus or Trigonometry or AP Calculus Statistics	AP Science Choice	US Government or AP US Government		
	Year 13	English Composition English Literature	<i>Dependent on chosen pathway</i>	Chemistry	<i>Dependent on chosen pathway</i>		
Year 14	Speech/Oral Communication	<i>Dependent on chosen pathway</i>	Biological Science Physics				
Year 15		<i>Dependent on chosen pathway</i>		<i>Continue courses pertinent to the pathway selected.</i>			
Year 16							

## ART

*Credit-bearing art courses fulfill the Fine Arts requirement for graduation.*

**9103 EXPLORATORY ART 6**  
**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.

**9105 INTRODUCTION TO ART**  
**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.

**91061 DRAWING AND PAINTING**  
**Grades 7-8**  
**Semester**

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

**91062 SCULPTURE AND CRAFTS**  
**Grades 7-8**  
**Semester**

In this course, students study the principles and elements of design with emphasis on printmaking, sculpture, and crafts.

**9120 ART I: ART FOUNDATIONS**  
**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.

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

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.

**9140 ART III: ADVANCED INTERMEDIATE**  
**Grades 11-12**  
**1 Credit**  
**Prerequisite: Art II**

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.

**9145 ART IV: ADVANCED**  
**Grade 12**  
**1 Credit**  
**Prerequisite: Art III**

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.

**9151 ADVANCED PLACEMENT ART HISTORY**  
**Grades 11-12**  
**1 Weighted Credit**  
**Prerequisite: Recommendation of English or art teacher**

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 required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**9180 COMPUTER GRAPHIC ART**

**Grades 10-12**

**1 Credit**

***Prerequisite: Art I***

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.

**9160 CRAFTS (BHS, YHS and YRA only)**

**Grades 9–12**

**1 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, paper mache, woodcarving, metal embossing, tapestry, ceramics, printmaking, and weaving. Art forms may be both two-dimensional and three-dimensional. Students also 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.

**91601 CRAFTS: DECORATIVE ARTS & DESIGN (GHS and THS only)**

**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, paper mache, woodcarving, metal embossing, tapestry, ceramics, printmaking, and weaving. Art forms may be both two-dimensional and three-dimensional.

**91612 CRAFTS: CULTURAL ARTS (GHS and THS only)**

**Grades 9-12**

**.5 Credit**

In this course, students 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.

**9170 ART HERITAGE**

**Grades 10-12**

**1 Credit**

This course provides a forum for students to explore art, its analysis, aesthetics, history, and appreciation in a setting other than a studio or an Advanced Placement Art History class. It offers an opportunity for daily support of the SOLs and makes many interdisciplinary connections. Art Heritage prepares the student to be a potential patron, consumer of art, future artist, aesthetic critic, and historian.

**9193 PHOTOGRAPHY & COMMUNICATION DESIGN I**

**Grades 10-12**

**1 Credit**

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

**9194 PHOTOGRAPHY & COMMUNICATION DESIGN II**

**Grades 11-12**

**1 Credit**

***Prerequisite: Photography & Communication Design I***

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 photocopierography.

**9175 CERAMICS (BHS, YHS and YRA only)**

**Grades 9–12**

**1 Credit**

#### 41 Secondary Program of Studies

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

**91751 CERAMICS A (GHS and THS only)**

**Grades 9-12**

**.5 Credit**

In this course, students identify basic pottery terms, utilize tools, and practice pottery hand-building and surface treatment techniques to create unique clay objects.

**91752 CERAMICS B (GHS and THS only)**

**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.

**9197 THREE-DIMENSIONAL DESIGN (3-D Design)**

**Grades 10-12**

**1 Credit**

**Prerequisite: At least one of the following – Art I, Ceramics, or Crafts**

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 three-dimensional design as well as becoming aware of contemporary ideas. Students in this course will explore and learn the basic concepts of three-dimensional 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.

**9148 AP STUDIO ART: 2D**

**Grades 11-12**

**Weighted Credit**

**Prerequisite: Art II or Photography II; art teacher recommendation required**

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 required to submit a portfolio for evaluation to the College Board at the end of the school year.

**9149 AP STUDIO ART: 3D**

**Grades 11-12**

**1 Weighted Credit**

**Prerequisite: Art I and Ceramics A and B or 3D Design; art teacher recommendation required**

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 required to submit a portfolio for evaluation to the College Board at the end of the school year.

**9150 AP STUDIO ART: DRAWING PORTFOLIO**

**Grades 11-12**

**1 Weighted Credit**

**Prerequisite: Art II; art teacher recommendation required**

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 required to submit a portfolio for evaluation to the College Board at the end of the school year.

**9147 DIRECTED STUDY ART (BHS, YHS, and YRA only)**

**Grades 11-12**

**1 Credit**

**91471 DIRECTED STUDY ART (GHS and THS only)**

**91472 Grades 11-12**

**.5 Credit**

**Prerequisite: Art I**

This is an in-depth, independent study designed to explore a specific area of art with the consent and direction of the art teacher. (May be continued.)

## BUSINESS & INFORMATION TECHNOLOGY

### 61506 KEYBOARDING BASICS 6

Grade 6

Quarter

This course is designed for middle school students to develop touch skills for entering alphabetic, numeric, and symbolic information on a keyboard. Students learn to produce simple technical and non-technical documents.

### 61507 KEYBOARDING/COMPUTER APPLICATIONS I

Grades 7-8

Semester

This course provides an opportunity for students to review and reinforce correct keyboarding techniques and gain a basic knowledge of word processing and graphics applications. Students demonstrate an understanding of computer concepts through application of knowledge. Students learn software packages and the operation of many types of equipment such as word processors, printers, copiers, and computers. (NOTE: Successful completion of Keyboarding/Computer Applications I & II applies toward the Business & Information Technology program completion in high school and allows a student to enroll in higher-level business courses.)

### 61508 KEYBOARDING/COMPUTER APPLICATIONS II

Grade 8

Semester

This course provides an opportunity for students to review and reinforce correct keyboarding techniques, gain advanced knowledge of word processing and graphics applications, and gain a basic understanding of spreadsheet and database applications. Students demonstrate an understanding of computer concepts through application of knowledge. Students learn software packages and the operation of many types of equipment such as word processors, printers, copiers, and computers. (NOTE: Successful completion of Keyboarding/Computer Applications I & II applies toward the Business & Information Technology program completion in high school and allows a student to enroll in higher-level business courses.)

### 6617 COMPUTER APPLICATIONS (GHS and THS only)

Grades 9-12

.5 Credit

In this course, students review correct keyboarding techniques while using software packages to gain a basic knowledge of word processing, spreadsheet, database, graphics, Internet, and multimedia applications.

### 6611 COMPUTER APPLICATIONS (BHS, YHS and YRA only)

Grades 9 – 12

1 Credit

In this course, students review correct keyboarding techniques while using software packages to gain a basic knowledge of word processing, spreadsheet, database, graphics, Internet, and multimedia applications. Optional TNCC dual enrollment may be available for students who take this course in the 11<sup>th</sup> or 12<sup>th</sup> grade. If students choose TNCC dual enrollment, tuition is charged and 3 TNCC credits are awarded for the completion of this 1 credit course. TNCC's application process, placement testing procedures, and timelines must be followed

### 6120 ECONOMICS AND PERSONAL FINANCE

Grades 9 – 12

1 Credit

***This course is required for students who entered ninth grade in 2011 and beyond.***

Students learn how to navigate the financial decisions they must face and to make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living independently, and inheritance. Development of financial literacy skills and an understanding of economic principles will provide the basis for responsible citizenship and career success. In addition to developing personal finance skills, students in the course may study concepts that prepare them for entry-level employment in the field of finance.

### 61211 FINANCIAL PLANNING (GHS & THS only)

Grades 10-12

.5 Credit

This course provides students with the opportunity to explore the many facets of financial decision-making involved in daily life. Topics include: money management, banking, investments, insurance, credit, budgeting, and other related financial issues. As they cover the various units of study in this course, students learn key strategies for planning a future that is financially secure.

### 61212 BUSINESS FINANCE (GHS & THS only)

Grades 10-12

.5 Credit

This course provides students with the opportunity to explore the many facets of financial decision-making in the world of business. Topics include: investigating the monetary system, studying economic principles, planning financial aspects of a

business enterprise, managing financial activities for a business enterprise, learning management functions, and exploring careers in the area of finance.

**6132 BUSINESS LAW (GHS & THS only)**  
**Grades 10-12**  
**.5 Credit**

In this course, students explore the foundations of the American legal system and economic and social concepts as they relate to legal principles and to business and personal laws.

**6135 BUSINESS MANAGEMENT (BHS, YHS and YRA only)**  
**Grades 10-12**  
**1 Credit**

**6136 BUSINESS MANAGEMENT (GHS and THS only)**  
**Grades 10-12**  
**.5 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. Optional TNCC dual enrollment may be available for students who take this course in 11<sup>th</sup> or 12<sup>th</sup> grade. If students choose TNCC dual enrollment (3-credit TNCC course) tuition is charged and credit is awarded at the high school and college. TNCC's application process, placement testing procedures, and timelines must be followed.

**6320 ACCOUNTING I**  
**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.

**6321 ACCOUNTING II**  
**Grades 11-12**  
**1 Credit**

**Prerequisite: Accounting I**

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.

**6612 COMPUTER INFORMATION SYSTEMS I**  
**Grades 10-12**  
**1 Credit**

In this course, students apply problem-solving skills to real-life situations through database, spreadsheets, 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). Optional TNCC dual enrollment may be available for students who take this course in 11<sup>th</sup> or 12<sup>th</sup> grade. If students choose TNCC dual enrollment (3-credit TNCC course) tuition is charged and credit is awarded at the high school and college. TNCC's application process, placement testing procedures, and timelines must be followed.

**6613 COMPUTER INFORMATION SYSTEMS II**  
**Grades 11-12**  
**1 Credit**

**Prerequisite: Computer Information Systems I**

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. This course prepares students to take the industrial certification exam to become a Microsoft Office Specialist (MOS). Optional TNCC dual enrollment may be available for students who take this course in 11<sup>th</sup> or 12<sup>th</sup> grade. If students choose TNCC dual enrollment (3-credit TNCC course) tuition is charged and credit is awarded at the high school and college. TNCC's application process, placement testing procedures, and timelines must be followed.

**6630 DESIGN, MULTIMEDIA & WEB TECHNOLOGIES**  
**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). Optional TNCC dual enrollment may be available for students who take this course in 11<sup>th</sup> or 12<sup>th</sup> grade. If students choose TNCC dual enrollment (3-credit TNCC course) tuition is charged and credit is awarded at the high school and college. TNCC's application process, placement testing procedures, and timelines must be followed.

**6670 INFORMATION TECHNOLOGY (IT) FUNDAMENTALS****Grades 9-10****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. Optional TNCC dual enrollment may be available for students who take this course in 11<sup>th</sup> or 12<sup>th</sup> grade. If students choose TNCC dual enrollment (3-credit TNCC course) tuition is charged and credit is awarded at the high school and college. TNCC's application process, placement testing procedures, and timelines must be followed.

**90971 DIRECTED STUDY BUSINESS PROGRAM (BHS, YHS, and YRA only)****Grades 11-12****1 Credit****90961 DIRECTED STUDY BUSINESS PROGRAM (GHS and THS only)****90962 Grades 11-12****.5 Credit**

This is a structured, guided, independent study of business. Approval by the teacher and the principal is recommended for enrollment in this course. (May be continued)

**6799 COOPERATIVE OFFICE EDUCATION****Grades 11-12****1 Credit**

**Co-requisite:** *Enrollment in any other occupational Business & Information Technology course/s for the entire year.*

Cooperative Office Education (COE) is a teaching method available in each occupational course. It includes supervised on-the-job instruction. Students attend classes part of the day and work in an approved business/office position part of the day. The teacher-coordinator develops, with the on-the-job training sponsor and the student, an individualized training plan identifying learning experiences according to the student's occupational objective. The on-the-job instruction is an extension of the classroom instruction coordinated by the classroom teacher into a single learning package. Students employed a minimum of 396 hours receive one credit for the COE; students employed a minimum of 540 hours receive two credits. NOTE: Students must complete an application.

## DRAMA

*Credit-bearing drama courses fulfill the Fine Arts requirement for graduation.*

**1390 DRAMA 6****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.

**13901 INTRODUCTION TO DRAMA****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.

**1395 DRAMA PRODUCTIONS****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.

**1410 DRAMA I (BHS, YHS and YRA only)****Grades 9-12****1 Credit****14101 DRAMA IA (GHS and THS only)****Grades 9-12**

**.5 Credit**

**14102 DRAMA IB (GHS and THS only)**

**Grades 9-12**

**.5 Credit**

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.

**1420 DRAMA II (BHS, YHS and YRA only)**

**Grades 9-12**

**1 Credit**

**14201 DRAMA IIA (GHS and THS only)**

**Grades 10-12**

**.5 Credit**

**14202 DRAMA IIB (GHS and THS only)**

**Grades 10-12**

**.5 Credit**

***Prerequisite: Two semesters of Drama I***

In this course, students continue their survey 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.

**1430 DRAMA III (BHS, YHS and YRA only)**

**Grades 10-12**

**1 Credit**

**14301 DRAMA IIIA (GHS and THS only)**

**Grades 11-12**

**.5 Credit**

**14302 DRAMA IIIB (GHS and THS only)**

**Grades 11-12**

**.5 Credit**

***Prerequisite: Two semesters of Drama II***

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.

**1440 DRAMA IV (BHS, YHS and YRA only)**

**Grades 11-12**

**1 Credit**

**14401 DRAMA IVA (GHS and THS only)**

**Grade 12**

**.5 Credit**

**14402 DRAMA IVB (GHS and THS only)**

**Grade 12**

**.5 Credit**

***Prerequisite: Two semesters of Drama III***

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.

**14353 TECHNICAL THEATRE (BHS, YHS and YRA only)**

**Grades 9 – 12**

**1 Credit**

**14351 TECHNICAL THEATRE A (GHS & THS only)**

**Grades 9 – 12**

**.5 Credit**

**14352 TECHNICAL THEATRE B (GHS & THS only)**

**Grades 9 – 12**

**.5 Credit**

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*

### **V14203 SURVEY OF WORLD DRAMA (Virtual High School)**

**Grades 9-12**

**Year**

This course is an exploration of drama from many cultures and ages that begins in Ancient Greece and extends into the 1990's. Students participate in reading, discussing, and analyzing these works as literature and theatre. Students view recorded performances as they discuss various interpretations of the plays.

## ENGLISH

### **PLEASE NOTE:**

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.

### **1109 ENGLISH 6**

**Grade 6**

**Year**

This course, taught during two blocks of time, provides students an opportunity to continue strengthening basic reading skills. In addition, emphasis is placed on content-area reading and study skills, listening, speaking, vocabulary development, composition, and literature.

### **11091 ADVANCED ENGLISH 6**

**Grade 6**

**Year**

This course, taught during two blocks of time, provides an opportunity for students who have demonstrated ability in English to enhance the skills needed for successful academic performance in later advanced English classes. Emphasis is placed on literature, composition, vocabulary development, spelling, listening, speaking, and critical thinking skills. Summer assignments are required.

### **1110 ENGLISH 7**

**Grade 7**

**Year**

In this course, students continue to strengthen basic reading skills, including the development of content-area reading and study skills. Emphasis is placed on listening, speaking, vocabulary development, composition, and literature.

### **11101 ADVANCED ENGLISH 7**

**Grade 7**

**Year**

For students with demonstrated ability in English, this course provides literature-based opportunities for students to enhance the skills needed for successful academic performance in later advanced English classes. Emphasis is placed on a variety of literature, composition, vocabulary development, spelling, listening, speaking, and critical thinking skills. Summer assignments are required.

### **1120 ENGLISH 8**

**Grade 8**

**Year**

This course provides opportunities for students to continue strengthening basic reading skills and developing content-area reading and study skills. Emphasis is also placed on composition, literature, vocabulary development, spelling, listening, and speaking skills.

### **11201 ADVANCED ENGLISH 8**

**Grade 8**

**Year**

This course provides an opportunity for students to enhance the skills needed for successful academic performance in later advanced English classes. Emphasis is placed on composition, literature, vocabulary development, spelling, listening, and speaking skills. Summer assignments are required.

**00662 READING WORKS 7 (A & B)**  
**Grade 7**  
**Semester**

**00663 READING WORKS 8 (A & B)**  
**Grade 8**  
**Semester**

These courses provide students with additional instruction in reading. Skill improvement in reading comprehension, vocabulary and fluency are the main components of the course.

**1130 ENGLISH 9**  
**Grade 9**  
**1 Credit**

This course focuses on oral and written communication in the areas of research, literary analysis, and technical forms. Critical reading skills, knowledge of literary forms, oral presentation, and interdisciplinary approaches are incorporated into literature instruction.

**11301 ADVANCED ENGLISH 9**  
**Grade 9**  
**1 Weighted Credit**

This course is designed for students who have demonstrated ability and interest in English and helps students prepare for the Advanced Placement Exam. The course focuses on oral and written communication in the areas of research, literary analysis, and technical forms. Knowledge of literary forms, oral presentation, and interdisciplinary approaches are incorporated into literature instruction. Summer assignments are required.

**1140 ENGLISH 10**  
**Grade 10**  
**1 Credit**  
***Prerequisite: English 9***

This course stresses reading from a variety of worldwide cultures and eras. Readings include various literary forms and consumer materials. Students use writing for evaluation and interpretation of ideas obtained through the readings. Small-group learning activities are used for the student to present and critique oral reports. In both reading and writing activities, including research, students gather information through the use of technology.

**11401 ADVANCED ENGLISH 10**  
**Grade 10**  
**1 Weighted Credit**  
***Prerequisite: English 9***

This course is designed for students who have demonstrated ability and interest in English and helps students prepare for the Advanced Placement Exam. The course is designed to enhance students' perceptions of world literature and language through reading and the development of analytical oral and written expression. Summer assignments are required.

**1150 ENGLISH 11**  
**Grade 11**  
**1 Credit**  
***Prerequisite: English 10***

This course incorporates a study of American literature with interdisciplinary aspects of United States History. Emphasis is on written and oral communication encompassing expository, persuasive, and technical skills. Literary analysis, research, and technical writings are included.

**1196 ADVANCED PLACEMENT ENGLISH 11/LANGUAGE AND COMPOSITION**  
**Grade 11**  
**1 Weighted Credit**  
***Prerequisite: English 10***

This is an advanced language and composition course designed to prepare students for the Advanced Placement Exam. Emphasis is on the reading of prose and on the development of expository, analytical, and persuasive writing skills. Summer assignments are required. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**1160 ENGLISH 12**  
**Grade 12**  
**1 Credit**  
***Prerequisite: English 11***

Emphasis is on the cultural development of English (British) literature and literature of other cultures by stressing major literary forms, themes, and techniques in an interdisciplinary approach. The student develops expository and technical writings. Comprehensive oral presentations and research projects reflect organizational skills, audience awareness, and appropriate vocabulary/grammar.

**1195 ADVANCED PLACEMENT ENGLISH 12/ LITERATURE AND COMPOSITION****Grade 12****1 Weighted Credit****Prerequisite: English 11**

This is an advanced literature and composition course designed to prepare students for the Advanced Placement Exam. Emphasis is on the best authors from around the world. Summer assignments are required. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**1165 GRAPHIC NOVELS AS LITERATURE****Grades 10-12****1 Credit**

This course offers students an exploration of a variety of literary genres through a graphic arts format that combines visual and verbal skills. Major literary themes and techniques will be explored. Students will participate in roundtable and small group literary research and analysis as well as technical and creative writing.

**1171 CREATIVE WRITING: POETRY & PROSE (BHS, YHS and YRA only)****Grades 10-12****1 Credit**

This course develops poetic writing techniques. Emphasis is placed on lyric and narrative style, traditional poetic form, tone, and allusion. Students also extend their 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.

**11711 CREATIVE WRITING: POETRY (GHS and YHS only)****Grades 10-12****.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.

**11712 CREATIVE WRITING: PROSE (GHS and YHS only)****Grades 10-12****.5 Credit**

In this course, students extend their 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.

**1200 LITERARY MAGAZINE/MASS MEDIA I****Grades 9-12****1 Credit**

This course provides students with the opportunity to work on the production/publication of a school literary magazine. Advertisements may be sold for school publications. NOTE: This course is a Fine Arts elective.

**12001 LITERARY MAGAZINE/MASS MEDIA II****Grades 10-12****1 Credit****Prerequisite: LITERARY MAGAZINE/MASS MEDIA I**

This course continues the focus on the production/publication of a school literary magazine. Advertisements may be sold for school publications. NOTE: This course is a Fine Arts elective. (May be continued)

**1210 NEWSPAPER/MASS MEDIA I****Grades 9-12****1 Credit**

This course provides students with the opportunity to work on the production/publication of a school newspaper. Advertisements may be sold for school publications. NOTE: This course is a Fine Arts elective.

**1211 NEWSPAPER/MASS MEDIA II****Grades 10-12****1 Credit****Prerequisite: NEWSPAPER/MASS MEDIA I**

This course continues the focus on the production/publication of a school newspaper. Advertisements may be sold for school publications. NOTE: This course is a Fine Arts elective. (May be continued)

**1220 YEARBOOK/MASS MEDIA I****Grades 9-12****1 Credit**

This course provides students with the opportunity to work on the production/publication of a school yearbook. Advertisements may be sold for school publications. NOTE: This course is a Fine Arts elective.

**12201 YEARBOOK/MASS MEDIA II**

**Grades 10-12**

**1 Credit**

**Prerequisite:** YEARBOOK/MASS MEDIA I

This course continues the focus on the production/publication of a school yearbook. Advertisements may be sold for school publications. NOTE: This course is a Fine Arts elective. (May be continued)

**1300 PUBLIC SPEAKING: COMMUNICATION AND PRESENTATION (BHS, YHS and YRA only)**

**Grades 9-12**

**1 Credit**

This course highlights basic speech communication theories. Topics of focus include interviews, group dynamics, delivery techniques, and informative and persuasive presentations. Students also explore a variety of communication delivery models. Emphasis is placed on PowerPoint presentations, debate, prose and poetic interpretations, and radio and television delivery.

**13001 PUBLIC SPEAKING: COMMUNICATION (GHS and THS only)**

**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.

**13002 PUBLIC SPEAKING: PRESENTATION (GHS and THS only)**

**Grades 9-12**

**.5 Credit**

In this course, students explore a variety of communication delivery models. Emphasis is placed on PowerPoint presentations, debate, prose and poetic interpretations, and radio and television delivery.

**1515 DIRECTED STUDY ENGLISH (BHS, YHS, and YRA only)**

**Grades 11-12**

**1 Credit**

**15151 DIRECTED STUDY ENGLISH (GHS and THS only)**

**15152 Grades 11-12**

**.5 Credit**

This is a writers' workshop or independent reading course. (May be continued)

## FAMILY & CONSUMER SCIENCE

**8206 FAMILY AND CONSUMER SCIENCES EXPLORATORY I**

**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 sciences, fine arts, and technology are integrated throughout the course.

**8263 FAMILY AND CONSUMER SCIENCE EXPLORATORY II**

**Grades 7-8**

**Semester**

Family and Consumer Sciences Exploratory II provides a foundation for managing individual, family, work, and community roles and responsibilities. In FACS Exploratory II, 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.

**8244 FAMILY AND CONSUMER SCIENCE EXPLORATORY III**

**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 sciences, and technology are integrated throughout the course.

## GENERAL TOPICS COURSES

### 98267 CONFLICT RESOLUTION SKILLS 6 Grade 6 Quarter

This course provides students with skills in understanding self, listening to and understanding others, communicating with others, understanding causes of conflict, and learning and practicing resolution skills. The course also helps students learn behaviors they can use in daily living to reduce school and community violence.

### 982801 CAREER COMPASS 6 Grade 6 Quarter

This course promotes the development of self-awareness and skills for job success. Students explore work styles and career clusters. The course provides a personal sense of direction, a desire for personal improvement, and a willingness to learn about career planning. Content skills are developed through career exploration experiences, including portfolio development, as well as classroom integration activities.

### 00664 WRITERS' ROUNDTABLE 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.

### 00665 READERS' ROUND TABLE Semester Grades 7-8

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.

### 00666 DIGITAL LITERACY Grade 6 Quarter



In this exploratory course, students gain proficiency with a variety of technology tools and applications that support content lessons and student products.

### 00668 SET FOR SUCCESS Grade 6 Quarter



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

### 00669 NEWSPAPER/ MASS MEDIA Grades 7, 8 Year



This class provides students an opportunity to do real-life writing/reporting in a variety of formats (written, video and audio). Students learn interviewing skills and conduct interviews with students, staff and members of the community.

### 982802 CAREER DISCOVERY Grades 7-8 Semester

This course guides students toward responsible decisions regarding future career decisions. Activities enable students to increase self-awareness and make wise educational and occupational decisions as they plan for a career. Students investigate multiple careers after exploring their interests and skills, and they discover the courses that will prepare them for their career choices. Through a variety of classroom activities, including the use of technology and continued portfolio development, students enhance their employability and decision-making skills as well as expand their career options.

### 9826 CRIMINAL JUSTICE 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.

**98287 ACADEMIC SEMINAR**

**98288 Grades 7 – 8**  
**Semester**

This course provides an opportunity for students to improve note-taking skills, organizational skills, reading, writing, and mathematics. Content is designed to increase the academic success of the students in their regular middle school course work. (May be continued)

**982803 MIDDLE SCHOOL YEARBOOK**

**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.

**982804 MIDDLE SCHOOL PUBLIC SPEAKING**

**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.

**982805 EXPLORING OUR WORLD**

**Grade 7 - 8**  
**Year**

Students will explore critical world issues with a focus on geography, social, political, and economic influences. Students will gain a global perspective of real-time phenomenon affecting society.

**982856 FRESHMAN SEMINAR (BHS, YHS and YRA only)**

**Grade 9**  
**1 Credit**

**982858 FRESHMAN SEMINAR (GHS and THS only)**

**982859 Grade 9**  
**.5 Credit**

This course assesses specific academic needs of targeted, academically at-risk students 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, components of Freshman Seminar include: note-taking strategies, reading/writing across the curriculum, organizational skills, test-taking strategies, time management, and career preparation. (May be continued)

**982957 ACADEMIC TUTORIAL (BHS, YHS, and YRA only)**

**Grades 10-12**  
**1 Credit**

This course assesses specific academic needs of targeted, academically at-risk students 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 (May be continued)

**5701 LEP LANGUAGE AND CULTURES**

**Grades 9 – 12**  
**1 credit**

This course is designed to help English language learners with proficiency levels of 1-3 adjust to life in their community and school environment. Students will have the opportunity to experience the United States culture and customs through the printed word and use of hands-on materials such as phone books, money, calculators and much more. The students will also be introduced to principles of basic reading and math as integrated into the study of culture and customs.

**982634 NUTRITION & WELLNESS / LIFE PLANNING (BHS, YHS and YRA only)**

**Grades 9 – 12**  
**1 Credit**

In this course, students focus on making choices that promote wellness and good health; analyzing relationships between psychological and social needs and food choices; choosing foods that promote wellness; obtaining and storing food for self and family; preparing and serving nutritious meals and snacks; selecting and using equipment for food preparation; and identifying strategies to promote optimal nutrition and wellness of society. Teachers highlight the skills of math, science, and communication when appropriate.

**98263 NUTRITION & WELLNESS (GHS and THS only)****Grades 9-12****.5 Credit**

In this course, students focus on making choices that promote wellness and good health; analyzing relationships between psychological and social needs and food choices; choosing foods that promote wellness; obtaining and storing food for self and family; preparing and serving nutritious meals and snacks; selecting and using equipment for food preparation; and identifying strategies to promote optimal nutrition and wellness of society. Teachers highlight the skills of math, science, and communication when appropriate. In addition, students focus on developing a life-management plan, developing strategies for lifelong career planning, coordinating personal and career responsibilities, and establishing a plan for using resources. Process skills, applicable to all subjects, are used throughout the course and include thinking, communication, leadership, and management.

**98264 LIFE PLANNING (GHS and THS only)****Grades 9-12****.5 Credit**

In this course, students focus on developing a life-management plan, developing strategies for lifelong career planning, coordinating personal and career responsibilities, and establishing a plan for using resources. Process skills, applicable to all subjects, are used throughout the course and include thinking, communication, leadership, and management.

**98261 SAT PREPARATION****Grades 10-12****.5 Credit (Pass/Fail)**

This course provides preparation for the critical reading, writing, and mathematics sections of the revised (2005) Scholastic Aptitude Test. (May be continued)

**982873 LEADERSHIP SEMINAR (BHS, YHS and YRA only)****Grades 11 – 12****1 Credit****982891 LEADERSHIP SEMINAR A (GHS and THS only)****Grades 10-12****.5 Credit****982892 LEADERSHIP SEMINAR B (GHS and THS only)****Grades 10-12****.5 Credit**

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.

**0128 MULTIMEDIA COMMUNICATIONS SEMINAR****Grades 11-12****1 Credit**

This course promotes information literacy and proficiency in the interdisciplinary use of multimedia technologies and communications. Designed to encourage students to integrate applications software into the curriculum, the course emphasizes a variety of multimedia tools using presentation packages, Internet, web design, and telecommunications. Within the framework of their career and higher education goals, students refine communication skills and manipulate various types of multimedia applications to produce collaborative, curriculum-based projects. Students following the previous honors program course of study, as outlined on pages 7 and 8, are required to take this course.

**98265 STUDENT ASSISTANCE EXPERIENCE****98266 Grades 11-12****No Credit****Prerequisite: Application & recommendation of staff member being assisted**

This elective offers students the opportunity to expand their knowledge by assisting in areas that may include the computer lab, library, science lab, school offices, or certain classes. (May be continued)

**984067 EVOLUTION OF CINEMA (BHS, YHS and YRA only)****Grades 11 – 12****1 Credit****98406 EVOLUTION OF CINEMA A (GHS AND THS only)****Grades 11-12****.5 Credit****98407 EVOLUTION OF CINEMA B (GHS AND THS only)****Grades 11-12****.5 Credit**

These interdisciplinary courses focus on film appreciation, creation, and history. The courses introduce the technical aspects of film and exposes 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 as well as research skills.

**9071 CAREER MENTORSHIP**

**Grades 11-12**

**1 Credit**

**Prerequisite: Application**

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.

**9072 SERVICE LEARNING**

**Grade 12**

**1 Credit**

**Prerequisite: Application**

Service Learning is an elective course that requires the student to perform 140 documented hours of service in one non-profit agency or institution agreed upon by the student, the parent, the agency, and the service learning instructor. The service is performed from October to May. The class meets at specified times designated by the school principal. Students are required to maintain a daily journal, a log of completed service hours that are verified by the service learning instructor and the agency coordinator, and an exit project on the service experience. Topics covered during class meetings include journal writing, civic participation, and problem solving. In this course, students acquire knowledge and skills to do the following: 1) identify societal problems/issues and propose real solutions; 2) connect curricular knowledge and skills to their own lives and the lives of others; 3) demonstrate active and responsible citizenship through participation in processes of local government and agencies; and 4) think, talk, and write about their experiences in providing service to individuals and to the community. Seniors are encouraged to consider service learning as a valuable course option. Service learning provides opportunities for students to use their knowledge and skills within the setting of certain non-profit agencies and organizations in York County and the greater Hampton Roads area.

**V98408 GAME DESIGN I (On-line)**

**Grades 10-12**

**1 Credit**

This course provides a solid foundation in the essentials of game design. Students will use game-development software to create engaging, interactive games in a variety of styles. In addition to learning about game genres, students learn about all aspects of the game-design process including hand-on projects that teach all elements of successful game development. This Virtual course offers students opportunities to expand technology skills through analysis and development of on-line games, graphics and animation.

**V98409 GAME DESIGN II (On-line)**

**Grades 10-12**

**1 Credit**

Students expand their knowledge of the game design industry while mastering event-driven game development through a series of interactive projects. Students will utilize their skills to create a game-development portfolio. This Virtual course offers students opportunities to expand technology skills through analysis and development of on-line games, graphics and animation.

## HEALTH & MEDICAL SCIENCES (BHS)

**8302 INTRODUCTION TO HEALTH AND MEDICAL SCIENCES**

**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 (Medical Doctor, Physical Therapist, Nurse Practitioner, Pharmacist, Dentist, Veterinarian, etc.) as well as careers that require an associate's degree or certification (employment in clinics, medical and dental offices, hospitals, and other medical settings).

**8383 MEDICAL TERMINOLOGY**

**Grades 10–12**

**1 Credit**

**Recommended Prerequisite: Introduction to Health and Medical Sciences**

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.

**9097 LEADERSHIP DEVELOPMENT**

**Grades 11-12**

**1 Credit**



**Recommended Prerequisite: Introduction to Health & Medical Sciences and Medical****Terminology**

Students will develop competencies in identifying individual aptitudes in relation to effective leadership skills including understanding organizational behavior, using effective communication in the workplace, handling human resources and organizational problems, resolving conflict, and planning for the future. Continuing education in leadership is emphasized as well as practical leadership experiences in cooperation with school and community leaders. Students will spend time in a hospital as well as in other medical facilities either in a job-shadowing or a mentorship experiences.

## HISTORY / SOCIAL SCIENCE

**2353 UNITED STATES HISTORY TO 1865****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.

**2354 UNITED STATES HISTORY II: 1865 TO THE PRESENT****Grade 7****Year**

Students continue to use skills in historical and geographical analysis to explore the history of the United States from the end of Reconstruction (1865) to the present. Emphasis is placed on the fundamental concepts in civics, economics, and geography.

**2357 CIVICS AND ECONOMICS****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.

**V2210 WORLD GEOGRAPHY****V2211 Grades 9-10****1 Credit**

*(Note: This course is only offered through Virtual High School and approved for students in extenuating circumstances.)*

The focus of this course is the study of the world's peoples, places, and environments, with an emphasis on world regions. The knowledge, skills, and perspectives of the course are centered on the world's population and cultural characteristics, landforms and climates, 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.

**2212 ADVANCED PLACEMENT HUMAN GEOGRAPHY****Grades 9 – 12****1 Weighted Credit**

***Prerequisites for 9<sup>th</sup> grade students: Suggested grade of A in Advanced English 8 and completion of at least one high school credit course with a suggested grade of B or better.***

Advanced Placement Human Geography 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. Summer assignments are required. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course. All students in this course will take the SOL test for World Geography. This course may be taken in place of World History I or as an elective credit after taking World History I.

**2215 WORLD HISTORY I****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. The theme of change with regard to scientific and technological advancements is highlighted. Attention is also focused on the connections between people and events prior to 1500 A.D. and those of contemporary times. Students have the opportunity to work with a variety of artifacts as well as primary and secondary sources.

**2216 WORLD HISTORY II**  
**Grade 10**  
**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 1500 A.D. to the present. Emphasis is placed on geographic influences, with increased attention to the development and evolution of the nation-state. The theme of change with regard to scientific and technological advancements is highlighted. 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.

**2360 VIRGINIA & UNITED STATES HISTORY**  
**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.

**2319 ADVANCED PLACEMENT UNITED STATES HISTORY**  
**Grade 11**  
**1 Weighted Credit**

**Prerequisite: A recommendation from World History II teacher and English teacher with a suggested grade of B or better in World History II**

This course is designed to provide advanced studies in the history of the United States while preparing the student to take the Advanced Placement Exam. Research writing and historical interpretive essay writing are incorporated into each unit of study. Extensive non-textbook reading is an integral part of the course. Summer assignments are required. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**2399 ADVANCED PLACEMENT EUROPEAN HISTORY**  
**Grades 10-12**  
**1 Weighted Credit**

**Prerequisite: A recommendation from World History I teacher and English teacher with a suggested grade of B or better in World History I**

This course is a study of European history from the year 1450 to the present. Students will learn about economic, cultural, social and political developments that have forged the world they know today. Summer assignments are required. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**2440 VIRGINIA & UNITED STATES GOVERNMENT**  
**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.

**2445 ADVANCED PLACEMENT UNITED STATES GOVERNMENT & POLITICS**  
**Grade 12**  
**1 Weighted Credit**

**Prerequisite: A recommendation from Advanced Placement U.S. History teacher and English teacher with a suggested grade of B or better in Advanced Placement U.S. History or an A in Virginia & U.S. History (This prerequisite does not apply to Pre-Diploma students)**

This course is designed to provide advanced studies in United States government while preparing students to take the Advanced Placement Exam. Research writing and historical interpretive essay writing are incorporated into each unit of study. Extensive non-textbook reading is an integral part of the course. Summer assignments are required. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**2500 SOCIOLOGY (BHS, YHS and YRA only)**  
**Grades 10-12**  
**1 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.

**25001 SOCIOLOGY: ASPECTS & TOOLS OF CULTURE (GHS and THS only)**  
**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.

**25002 SOCIOLOGY: INSTITUTIONS & ISSUES (GHS and THS only)**  
**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.

**2800 ECONOMICS**  
**Grades 10-12**  
**.5 Credit**

This is an introductory course in basic economics. Emphasis is placed on fundamental economic principles, the role of labor and management, the impact of the government on the economy, and world economic interdependence. Additional course components include: a computer-assisted instruction simulation that teaches application of economic principles and practices, the services of a local businessperson who acts as an advisor, and the option of forming and operating a classroom company.

**2810 INTERNATIONAL RELATIONS**  
**Grades 10-12**  
**.5 Credit**

This course explores the many and increasing ramifications of the interdependence of all nations that has evolved with the industrial and communications revolutions of the contemporary era. The course focuses on world trade, the environment, and conflicting ideologies.

**2900 PSYCHOLOGY**  
**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.

**2902 ADVANCED PLACEMENT PSYCHOLOGY**  
**Grades 10-12**  
**1 Weighted Credit**

This course introduces the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. Summer assignments are required. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**V2380 ADVANCED PLACEMENT WORLD HISTORY - VIRTUAL ADVANCED PLACEMENT SCHOOL**  
**Grades 10-12**  
**1 Weighted Credit**  
**Prerequisites: A recommendation from the previous History teacher and an overall "B" average in related history courses.**

The purpose of the Advanced Placement 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 required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**V2450 ADVANCED PLACEMENT GOVERNMENT & POLITICS: COMPARATIVE (On-line)**  
**Grades 11-12**  
**1 Weighted Credit**  
**Prerequisite: U.S. History or World History**

Students are introduced to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate the importance of global political and economic changes. Six countries form the core of the Advanced Placement Comparative Government and Politics course: China, Great Britain, Mexico, Nigeria, and Russia. In addition, Iran will be included as time allows. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course. **This course does NOT substitute for U.S. Government under the Virginia Standards of Learning.**

**V2802 ADVANCED PLACEMENT MICRO ECONOMICS (On-line)**

**Grades 11-12**

**.5 Weighted Credit**

Advanced Placement Micro Economics studies the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students will learn why the same product costs different amounts at different stores, in different cities, at different times. In addition, students will learn to spot patterns in economic behavior and how to use those patterns to explain buyer and seller behavior under various conditions. Micro Economics studies the economic way of thinking, understanding the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in promoting a healthy economy. The equivalent of a 100-level college course, this course prepares students for the Advanced Placement Exam and for further study in business, history, and political science. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**V2803 ADVANCED PLACEMENT MACRO ECONOMICS (On-line)**

**Grades 11-12**

**.5 Weighted Credit**

Advanced Placement Macro Economics students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline. In addition, students will examine how individuals, institutions, and influences affect people, and how those factors can impact everyone's life through employment rates, government spending, inflation, taxes, and production. The equivalent of a 100-level college-level class, this course prepares students for the Advanced Placement Exam and for further study in business, political science and history. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**2996 DIRECTED STUDY HISTORY/SOCIAL SCIENCE (BHS, YHS, and YRA)**

**Grades 11-12**

**1 Credit**

**29962 DIRECTED STUDY HISTORY/SOCIAL SCIENCE (GHS and THS only)**

**29963 Grades 11-12**

**Semester/.5 Credit**

This is a structured, guided independent study of history/social science. (May be continued)

## MARKETING EDUCATION

**INFORMATION:** The Marketing Education program prepares students for full-time employment in retail, wholesale, and service businesses. Students must complete an application.

**Cooperative Education (CO-OP)** combines classroom instruction with a minimum of 540 hours of supervised on-the-job training. Training occurs in an approved local marketing business and is coordinated by the marketing teacher-coordinator. On-the-job training during the summer months may be applied toward the 540 hours if documented by a training plan and supervised by the teacher-coordinator.

**Occupational Experiences (OE)** combines classroom instruction with a minimum of 360 hours of occupational experiences (simulations, community-based projects, periodic employment) that are planned, supervised, and documented by the marketing teacher-coordinator. Occupational experiences during the summer months may be applied toward the 360 hours if supervised by the teacher-coordinator.

**8110 FUNDAMENTALS OF MARKETING**

**Grades 9-12**

**1 Credit**

This basic elective course provides students with an understanding of marketing and prepares them for entry-level marketing employment.

**81201 MARKETING I/CO-OP**

**Grades 10-12**

**3 Credits**

In this 3-credit course in the General Marketing concentration, students learn functions involved in the marketing of goods and services and develop competencies necessary for successful marketing employment including personal selling, advertising, visual merchandising, physical distribution, purchasing, market planning, product/service technology, and marketing mathematics. In addition to classroom instruction, this course requires completion of 540 hours of cooperative education.

**81202 MARKETING I/OE**

**Grades 10-12**

**2 Credits**

This 2-credit course provides the same classroom instruction as Marketing I/Co-op but requires 360 hours of occupational experiences.

**81301 MARKETING II/CO-OP****Grade 10-12****3 Credits****Prerequisite:** Marketing I / CO-OP or OE

In this 3-credit course in the General Marketing concentration, students gain in-depth knowledge of marketing functions, the supervisory and management responsibilities for those functions, and Virtual Enterprise software. They also learn competencies important for successful supervisory management, employment, and advancement to other management positions. In addition to classroom instruction, this course requires completion of 540 hours of cooperative education. Optional TNCC dual enrollment is available for this course. If students choose TNCC dual enrollment (3-credit TNCC course) tuition is charged and credit is awarded at the high school and college. TNCC's application process, placement testing procedures, and timelines must be followed.

**81302 MARKETING II/OE****Grade 10-12****2 Credits****Prerequisite:** Marketing I / CO-OP or OE

This 2-credit course provides the same classroom instruction as Marketing II/Co-op but requires 360 hours of occupational experiences.

**81401 FASHION MARKETING I/CO-OP****Grades 10-12****3 Credits**

In this specialized course, students gain basic knowledge of the apparel and accessories industry and skills necessary for successful employment in apparel businesses. Students develop general marketing skills necessary for successful employment in fashion marketing, general marketing skills applicable to the apparel and accessories industry, and specialized skills unique to fashion marketing. Personal selling, sales promotion, purchasing, physical distribution, market planning, and product/service technology as well as academic skills (mathematics, science, English, and history/social science) related to the content are part of this course. Computer/Technology applications supporting this course are studied. In addition to classroom instruction, this course requires completion of 540 hours of cooperative education.

**81402 FASHION MARKETING I/OE****Grades 10-12****2 Credits**

This 2-credit course provides the same classroom instruction as Fashion Marketing I/Co-op but requires 360 hours of occupational experiences.

**81451 FASHION MARKETING II/CO-OP****Grade 10-12****3 Credits****Prerequisite:** Marketing I (CO-OP or OE) or Fashion Marketing I (CO-OP or OE)

Students with a career interest in apparel and accessories marketing gain in-depth knowledge of the apparel and accessories industry and skills important for supervisory-management employment in apparel businesses. They develop advanced skills unique to fashion marketing and advanced general marketing skills applied to the apparel and accessories industry. Professional selling, sales promotion, buying, merchandising, marketing research, product/service technology, and supervision as well as academic skills (mathematics, science, English, and history/social science) related to the content are part of this course. Computer/technology applications supporting this course are studied. In addition to classroom instruction, this course requires completion of 540 hours of cooperative education.

**81452 FASHION MARKETING II/OE****Grade 10-12****2 Credits****Prerequisite:** Marketing I (CO-OP or OE) or Fashion Marketing I (CO-OP or OE)

This 2-credit course provides the same classroom instruction as Fashion Marketing II/Co-op but requires 360 hours of occupational experiences.

**81751 SPORTS, ENTERTAINMENT & RECREATIONAL MARKETING I/ CO-OP****Grades 10-12****3 Credits**

This introductory course helps students develop a thorough understanding of fundamental marketing concepts and theories as they relate to the sports, entertainment, and recreation industries. Students will investigate the components of branding, sponsorships, and endorsements, as well as promotion plans needed for sports, entertainment, and recreation events. The course also supports career development skills and explores career options. Academic skills (mathematics, science, English, and history/social science) related to the content are a part of this course. In addition to classroom instruction, this course requires completion of 540 hours of cooperative education.

**81752 SPORTS, ENTERTAINMENT & RECREATIONAL MARKETING I / OE**

**Grades 10 – 12**

**2 Credits**

This 2-credit course provides the same classroom instruction as **81751 Sports, Entertainment & Recreational Marketing I / CO-OP** but requires 360 hours of occupational experiences.

**81771 SPORTS, ENTERTAINMENT & RECREATIONAL MARKETING II/ CO-OP**

**Grades 10-12**

**3 Credits**

**Prerequisite: Marketing I (CO-OP or OE) or Sports, Entertainment, and Recreational Marketing I / CO-OP or OE**



Students will build on prior knowledge of sports, entertainment, and recreational marketing. This course focuses on the principles of management and planning supported by research, financial, and legal concepts. Students will be able to plan and execute an event, develop a career plan, and establish a sports, entertainment or recreation marketing product/business. Academic skills (mathematics, science, English, and history/social science) related to the content are a part of this course. Computer technology applications supporting the course are studied. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. In addition to classroom instruction, this course requires completion of 540 hours of cooperative education.

**81772 SPORTS, ENTERTAINMENT & RECREATIONAL MARKETING II/OE**

**Grades 10-12**

**2 Credits**

**Prerequisite: Marketing I (CO-OP or OE) or Sports, Entertainment & Recreational Marketing I / CO-OP or OE**



This 2-credit course provides the same classroom instruction as **81771 Sports, Entertainment & Recreational Marketing II / CO-OP** but requires 360 hours of occupational experiences.

## MATHEMATICS

### INFORMATION

- 1) 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.
- 2) After completing Geometry, students may take Algebra, Functions & Data Analysis or Algebra II or Algebra II/Trig.
- 3) Any two math courses for which prerequisites have been met may be taken concurrently only with teacher/administrator approval.

Students enrolled in the following high school credit math courses must successfully complete the first semester of the course prior to taking the second semester: *Algebra I/A&B*; *Geometry/A&B*; and *Algebra II/A&B*. Students who do not pass the first semester of these courses will be re-enrolled in the first semester of the course and have their schedules adjusted if necessary. Each semester math course carries a .5 credit.

**3110 FOUNDATIONS OF ALGEBRA, PART I**

**Grade 6**

**Year**

This course is designed to strengthen students' skills in problem solving and mathematical concepts and builds a foundation for Algebra I. The course addresses the 6<sup>th</sup> grade math Standards of Learning in the areas of number sense, computation, estimation, measurement, geometry, probability, statistics, patterns, functions, and algebra.

**31106 FOUNDATIONS OF ALGEBRA**

**Grade 6**

**Year**

**Prerequisite: Recommendation from previous mathematics teacher with a suggested grade of A in 5<sup>th</sup> grade mathematics, an Advanced Pass on the 4<sup>th</sup> and 5<sup>th</sup> grade Mathematics Standards of Learning assessments.**

This course combines Foundations of Algebra Parts I and II content in preparation for Algebra I, addressing both the 6<sup>th</sup> and 7<sup>th</sup> grade Standards of Learning in the areas of number sense, computation, estimation, measurement, geometry, probability, statistics, patterns, functions, and algebra.

**3111 FOUNDATIONS OF ALGEBRA, PART II**

**Grade 7**

**Year**

This course is designed to strengthen students' skills in problem solving and mathematical concepts and build a foundation for Algebra I. The course addresses the 7<sup>th</sup> grade math Standards of Learning in the areas of number sense, computation, estimation, measurement, geometry, probability, statistics, patterns, functions, and algebra.

**31121 FOUNDATIONS OF ALGEBRA, PART III**  
**Grade 8**  
**Year**

This course is designed to provide a preliminary study of the concepts of algebra and to strengthen students' skills in problem solving and mathematical concepts. The course addresses the 8<sup>th</sup> grade math Standards of Learning for middle school in the areas of number sense, computation, estimation, measurement, geometry, probability, statistics, patterns, functions, and algebra.

**3120 PERSONAL LIVING AND FINANCE**  
**Grade 10-12**  
**1 Credit**  
**Prerequisite: Algebra I**

This course fulfills a math diploma requirement for students seeking the Modified Standard Diploma ONLY. Other diploma track students may take this course for elective credit. In this course students strengthen math skills and explore the basic concepts of mathematics, algebra, and personal finance. Components of this course include: skills and applications in problem solving and mathematical concepts, with emphasis on patterns, functions, and algebra; geometry; probability and statistics; and personal and financial planning.

**3130 ALGEBRA I (BHS, YHS and YRA only)**  
**Grades 9–12**  
**1 Credit**

**31301 ALGEBRA I A (GHS and THS only)**  
**Grades 7-12**  
**.5 Credit**

**31302 ALGEBRA I B (GHS and THS only)**  
**Grades 7-12**  
**.5 Credit**  
**Prerequisite: Algebra I A**

These courses are studies 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.

**31301D ALGEBRA I DOUBLE BLOCK A (GHS and THS only)**  
**32001 Grade 9**

**.5 credit Algebra plus .5 credit elective**

**31302D ALGEBRA I DOUBLE BLOCK B (GHS and THS only)**  
**32002 Grade 9**

**.5 credit Algebra plus .5 credit elective**

**Prerequisite: Algebra I A or Algebra I A DOUBLE BLOCK**

These courses are offered for students who need additional time to master the algebraic concepts required in Algebra I. 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. Courses 32001 and 32002 count as semester electives but not as math credits required for graduation. Students enrolled in 31302D will take the Algebra I SOL test.

**3143 GEOMETRY (BHS, YHS and YRA only)**  
**Grades 9–12**  
**1 Credit**

**31431 GEOMETRY A (GHS and THS only)**  
**Grades 9-12**  
**.5 Credit**

**Prerequisite: Algebra I**

**31432 GEOMETRY B (GHS and THS only)**  
**Grades 9-12**  
**.5 Credit**

**Prerequisite: Geometry A**

The content of these courses 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. The courses emphasize two-dimensional and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems.

**31433 ADVANCED GEOMETRY**  
**Grades 8–10**

**1 weighted credit** (Weighted credit beginning with students entering grade 8 in the 2008-2009 school year).

**Prerequisite: Algebra I**

The content of this course offers an intense 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. Two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models are emphasized. Advanced Geometry provides the foundation for students to pursue a sequence of advanced mathematical studies from Algebra II/Trigonometry to Mathematical analysis to Advanced Placement Calculus.

**3199 ALGEBRA FUNDAMENTALS (BHS, YHS and YRA only)**

**Grade 9**

**1 Credit**

This course provides instruction for students who need extra time to master the concepts required in Algebra I. This course counts as an elective credit but not as a math required credit.

**3135 ALGEBRA II (BHS, YHS and YRA only)**

**Grades 9–12**

**1 Credit**

**Prerequisite: Algebra I**

**31351 ALGEBRA II A (GHS and THS only)**

**Grades 9-12**

**.5 Credit**

**Prerequisite: Algebra I**

**31352 ALGEBRA II B (GHS and THS only)**

**Grades 9-12**

**.5 Credit**

**Prerequisite: Algebra II A**

The content of these courses 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. The courses also include a transformational approach to graphing functions.

**3134 ALGEBRA, FUNCTIONS AND DATA ANALYSIS**

**Grade 10-12**

**1 Credit**

**Prerequisite: Algebra I**

Within the context of mathematical modeling and data analysis, students will study functions and their behaviors, systems of inequalities, probability, experimental design and 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, of logarithmic equations or a system of equations.

**3137 ALGEBRA II/TRIGONOMETRY**

**Grades 9-12**

**1 Weighted Credit**

**Prerequisite: Algebra I & Geometry or Advanced Geometry plus a recommendation from previous math teacher**

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 Mathematical Analysis to Advanced Placement Calculus.

**3163 TRIGONOMETRY AND FUNCTIONS (BHS, YHS and YRA only)**

**Grades 9–12**

**1 Credit**

**Prerequisite: Geometry & Algebra I**

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. In Additions, algebra topics that are not covered in the Algebra II curriculum will be explored. An emphasis will be placed on functions and topics found on college entrance exams.

**3150 TRIGONOMETRY (GHS and THS only)**

**Grades 10-12**

**.5 Credit**

**Prerequisite: Geometry & Algebra II**

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.

**3154 DISCRETE MATHEMATICS (GHS and THS only)****Grades 10-12****.5 Credit*****Prerequisite:* Geometry or Advanced Geometry & Algebra II or Algebra II/Trigonometry**

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

**31602 ALGEBRA III (GHS and THS only)****Grades 10-12****.5 Credit*****Prerequisite:* Geometry or Advanced Geometry & Algebra II or Algebra II/Trigonometry**

This course explores algebra topics that are not covered in the Algebra II curriculum. Topics studied include analytic geometry, functions, sequences and series, and probability. Successful completion of this course prepares students for Mathematical Analysis or college-level calculus courses. Concepts covered in this course are found on college entrance and Math League exams.

**31603 SENIOR MATHEMATICS (BHS, YHS and YRA only)****Grade 12****1 Credit**

This course is designed for college-bound seniors to provide added mathematical instruction that supports success on entrance exams and in freshman math courses. Topics studied include advanced algebra, analytic geometry, functions, sequences and series, and probability.

**3162 MATHEMATICAL ANALYSIS****Grades 10-12****1 Weighted Credit*****Prerequisite:* Geometry OR Advanced Geometry AND Algebra II/Trigonometry OR Algebra II and Trigonometry. A recommendation from previous math teacher with a suggested grade of A or B in Algebra II or Algebra II/Trigonometry.**

This course extends students' knowledge of function characteristics and introduces them to another mode of mathematical reasoning. Students enrolled in Mathematical Analysis have mastered Algebra II concepts and to have completed trigonometry. The content of this course serves as an appropriate preparation for a calculus course. Graphing calculators or computer graphing simulators are used. NOTE: The requirement of a prerequisite of Algebra II/Trigonometry or Trigonometry began in the 2008-2009 school year.

**31601 CALCULUS****Grades 10-12****1 Credit*****Prerequisite:* Mathematical Analysis**

This course provides a thorough treatment of calculus through the 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.

**31771 ADVANCED PLACEMENT CALCULUS AB****Grades 10-12****1 Weighted Credit*****Prerequisite:* Mathematical Analysis.**

This course is designed to prepare students for the Advanced Placement 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. Summer assignments are required. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course. This course may not be taken concurrently with Advanced Placement Calculus BC.

**31772 ADVANCED PLACEMENT CALCULUS BC****Grades 10-12****1 Weighted Credit*****Prerequisite:* Mathematical Analysis.**

This course is designed to prepare students for the Advanced Placement Calculus BC exam. Content includes topics in Advanced Placement Calculus AB and explores in-depth additional calculus applications, including analysis of derivatives, L'Hôpital's Rule, applications of integrals, techniques of antidifferentiation, and polynomial approximations and series. Summer assignments are required. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course. This course may not be taken concurrently with Advanced Placement Calculus AB.

**3184 COMPUTER MATHEMATICS****Grades 9-12****1 Credit**

**Prerequisite: Algebra I**

This course provides opportunities to explore mathematical problem solving through computer programming that utilizes the graphing calculator. Students apply programming techniques and skills to solve practical mathematics problems in areas that may include: business, personal finance, leisure activities, sports, and probability and statistics. Problems focus on analysis of data in charts, graphs, and tables and the use of knowledge of equations, formulas, and functions to solve problems.

**3185 ADVANCED PLACEMENT COMPUTER SCIENCE A**

**Grades 11-12**

**1 Weighted Credit**

**Prerequisite: Trigonometry**

This course is designed to prepare students for the Advanced Placement Computer Science exam. Content offers a further exploration of computer skills and applications using Java programming language. Summer assignments are required. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**31902 PROBABILITY & STATISTICS WITH DISCRETE MATHEMATICS (BHS, YHS and YRA only)**

**Grades 10-12**

**1 Credit**

**Prerequisite: Geometry or Advanced Geometry AND Algebra II or Algebra II/Trigonometry**

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. In addition, students are introduced to contemporary mathematics with an emphasis on applications centered on the topics of probability, management science, social sciences, and measurement theory.

**31901 PROBABILITY & STATISTICS (GHS and THS only)**

**Grades 10-12**

**.5 Credit**

**Prerequisite: Geometry or Advanced Geometry AND Algebra II or Algebra II/Trigonometry**

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.

**3192 ADVANCED PLACEMENT STATISTICS**

**Grades 10-12**

**1 Weighted Credit**

**Prerequisite: Trigonometry**

This course is designed to prepare students for the Advanced Placement 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. Summer assignments are required. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**3199 DIRECTED STUDY MATHEMATICS (BHS, YHS and YRA only)**

**Grades 11-12**

**1 Credit**

**31994 DIRECTED STUDY MATHEMATICS (GHS and THS only)**

**31995 Grades 11-12**

**Semester/.5 Credit**

In this course, the student proposes and undertakes an independent exploration of a major area of interest in mathematics. This course requires the prior consent of the department chair and a written project proposal. (May be continued)

## MUSIC

**9269 INTRODUCTION TO CHORUS**

**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.

**9270 MUSICAL STAGE PRODUCTIONS**

**Grades 7-8**

**Semester**

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

**92708 ADVANCED CHORUS**  
**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.

**9260 CHORUS I**  
**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.

**9289 CHORUS II**  
**Grades 10-12**  
**1 Credit**

***Prerequisite:* Chorus I or Small Vocal Ensemble I & audition**

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. (May be continued)

**9280 SMALL VOCAL ENSEMBLE I**  
**Grades 9-12**  
**1 Credit**

***Prerequisite:* Audition**

This course is designed to develop vocalists for performance in a variety of ensemble groups (e.g., show choirs, madrigal singers, quartets). Theory, sight-reading, musical techniques, and various musical styles are emphasized. Students selecting this course should have previous choral experience.

**92801 SMALL VOCAL ENSEMBLE II**  
**Grades 10-12**  
**1 Credit**

***Prerequisite:* Small Vocal Ensemble I or Chorus I & audition**

This course continues to develop vocalists for performance in a variety of ensemble groups (e.g., show choirs, madrigal singers, quartets). Theory, sight-reading, musical techniques, and various musical styles are emphasized. (May be continued)

**9230 BEGINNING BAND 6**  
**Grade 6**  
**Year**

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

**9232 BEGINNING BAND**  
**Grades 7-8**  
**Year**

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

**9233 INTERMEDIATE BAND**  
**Grades 7-8**  
**Year**

***Prerequisite:* Audition or one year of instrumental music experience**

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

**9234 ADVANCED BAND**  
**Grades 7-8**  
**Year**

***Prerequisite:* Audition or one year of instrumental music experience**

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

**92321 BEGINNING BAND (BHS and YHS only)**  
**Grades 9-11**  
**1 Credit**

This beginning band course is designed for students who were unable to participate in band during the middle school years.

**9237 CONCERT BAND I**  
**Grades 9-12**  
**1 Credit**  
***Prerequisite:* Audition**



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.

**9238 CONCERT BAND II**  
**Grades 10-12**  
**1 Credit**

***Prerequisite: Concert Band I or Sectionals I & audition***

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. (May be continued)

**9239 SYMPHONIC BAND I**  
**Grades 9-12**  
**1 Credit**

***Prerequisite: Audition***

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.

**9240 SYMPHONIC BAND II**  
**Grades 10-12**  
**1 Credit**

***Prerequisite: Symphonic Band I or Sectional I & audition***

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. (May be continued)

**92341 WOODWIND SECTIONALS I**  
**Grades 9-12**  
**1 Credit**

***Prerequisite: Audition***

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

**92342 WOODWIND SECTIONALS II**  
**Grades 10-12**  
**1 Credit**

***Prerequisite: Woodwind Sectionals I & audition***

This course continues small group instruction in the woodwind family. Participation in marching band, band camp, and/or other related band activities is a requirement of this course. (May be continued)

**92343 PERCUSSION SECTIONALS I**  
**Grades 9-12**  
**1 Credit**

***Prerequisite: Audition***

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.

**92344 PERCUSSION SECTIONALS II**  
**Grades 10-12**  
**1 Credit**

***Prerequisite: Percussion Sectionals I & Audition***

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. (May be continued)

**92345 BRASS SECTIONALS I**  
**Grades 9-12**  
**1 Credit**

***Prerequisite: Audition***

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

**92346 BRASS SECTIONALS II**  
**Grades 10-12**  
**1 Credit**

**Prerequisite: Brass Sectionals I & audition**

This course continues small group instruction in the brass family. Participation in marching band, band camp, and/or other related band activities is a requirement of this course. (May be continued)

**9245 BEGINNING GUITAR (ACOUSTIC)****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 and participation in concerts and other musical performances is a requirement of this course.

**9250 STAGE BAND I****Grades 9-12****1 Credit****Prerequisite: Audition**

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.

**92501 STAGE BAND II****Grades 10-12****1 Credit****Prerequisite: Stage Band I & audition**

Students in this performing organization continue to represent 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. (May be continued)

**9225 MUSIC THEORY (BHS, YHS and YRA only)****Grades 9–12****1 Credit****92251 MUSIC THEORY (GHS and THS only)****92252 Grades 9-12****.5 Credit**

This course concentrates on development of a working knowledge of music fundamentals as applied to arranging and composition. (May be continued)

**9298 DIRECTED STUDY MUSIC (BHS, YHS, and YRA only)****Grades 11-12****1 Credit****92981 DIRECTED STUDY MUSIC (GHS and THS only)****92982 Grades 11-12****.5 Credit**

This course requires approval by the department chair and a written project proposal submitted by the student at the time of registration. (May be continued)

**9222 MUSIC APPRECIATION (BHS, YHS and YRA only)****Grades 9–12****1 Credit****92221 MUSIC APPRECIATION A (GHS and THS only)****Grades 9–12****.5 Credit****92222 MUSIC APPRECIATION B (GHS and THS only)****Grades 9–12****.5 Credit**

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.

## NAVAL SCIENCE (YHS Only)

**INFORMATION:**

The purpose of NJROTC 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 an YCSD high school and be a United States citizen or admitted for permanent residence to enroll in this program. Each Naval Science course is composed of three hours of classroom work and two 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 a SAT and ACT on-line college preparatory program at no cost. Cadets may be eligible for college credit for NJROTC courses, from the University of Colorado, if course requirements are met. Participation in NJROTC offers students an advantage in competition for military academy and college ROTC scholarships. Students who complete two 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.

**79130 NAVAL SCIENCE I**

**Grades 9-12**

**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 life time planning.

**79160 NAVAL SCIENCE II**

**Grades 10-12**

**1 Credit**

**Prerequisite: Naval Science I or transfer from other JROTC program**

This course expands cadets' knowledge and experience beyond the introduction to JROTC 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 life styles. Naval Science II and III are offered in alternating years as a combined 10<sup>th</sup> and 11<sup>th</sup> grade class.

**79180 NAVAL SCIENCE III**

**Grades 10-12**

**1 Credit**

**Prerequisite: Naval Science I or transfer from other JROTC program**

This course expands cadets' knowledge and experience beyond the introduction to JROTC 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 life styles. Naval Science II and III are offered in alternating years as a combined 10<sup>th</sup> and 11<sup>th</sup> grade class.

**79190 NAVAL SCIENCE IV**

**Grade 12**

**Year/1 Credit**

**Prerequisite: Naval Science III, SNSI approval, or transfer from other JROTC program**

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 are required as specified by the Naval Science Instructors are included in this course. 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.

## PHYSICAL EDUCATION / DRIVER EDUCATION

**7111 PHYSICAL EDUCATION/LIFETIME FITNESS 6**

**Grade 6**

**Year**

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

**7121 PHYSICAL EDUCATION/LIFETIME FITNESS 7**

**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.

**7210 PHYSICAL EDUCATION/LIFETIME FITNESS 8**

**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.

**7300 HEALTH & PHYSICAL EDUCATION****Grade 9****Year/1 Credit**

In this course, health units include the study of disease, consumer and environmental health issues, first aid, and Family Life Education. Physical education units include instruction in physical fitness and conditioning, individual and dual sports, and team sports.

**7405 HEALTH, DRIVER EDUCATION & PHYSICAL EDUCATION****Grade 10****1 Credit****Prerequisite: Health & PE 9 or permission of the principal**

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.

**7510 PHYSICAL EDUCATION (BHS, YHS, and YRA only)****Grade 11****1 Credit****75101 PHYSICAL EDUCATION A (GHS and THS only)****Grade 11****5 Credit****75102 PHYSICAL EDUCATION B(GHS and THS only)****Grade 11****.5 Credit**

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.

**7610 PHYSICAL EDUCATION (BHS, YHS, and YRA only)****Grade 12****1 Credit****76101 PHYSICAL EDUCATION A(GHS and THS only)****Grade 12****.5 Credit****76102 PHYSICAL EDUCATION B(GHS and THS only)****Grade 12****.5 Credit**

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.

## SCIENCE

**4105 SCIENCE 6****Grade 6****Year**

This introductory course is designated to provide a thematic approach to areas of scientific study with an emphasis on Earth / Space Science and Scientific Inquiry.

**4115 LIFE SCIENCE 7****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 plants and animals and their interrelationships.

**4125 PHYSICAL SCIENCE 8****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.

**98269 INTRODUCTION TO FORENSIC SCIENCE**

**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.

**4611 READY, SET, GO**

**Grades 7-8  
Semester**



This class exposes students to engineering-related careers through hands-on science, technology, engineering and math activities such as bridge building, mouse trap car racing, solar energy exploration, and the principles of flight.

**4210 EARTH SCIENCE**

**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.

**4220 ATMOSPHERIC SCIENCE & CLIMATOLOGY**

**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 in the course. NOTE: Students enrolled in this course who have not previously taken the Earth Science SOL test must take this test.

**4310 BIOLOGY I**

**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.

**4320 BIOLOGY II/MARINE SCIENCE**

**Grades 11-12  
1 Weighted Credit  
Prerequisite: Biology I**

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.

**4330 BIOLOGY II/MAMMALIAN ANATOMY & PHYSIOLOGY**

**Grades 11-12  
1 Weighted Credit  
Prerequisite: Biology I**

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.

**4340 ECOLOGY & ENVIRONMENTAL SCIENCE**

**Grades 10-12  
1 Credit  
Prerequisite: Biology I**

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.

**4370 ADVANCED PLACEMENT BIOLOGY****Grades 11-12****1 Weighted Credit****Prerequisite: Biology I & Chemistry I**

This course is designed to prepare students for the Advanced Placement Biology exam and to meet the objectives of general biology courses at the college level. A series of 12 required experiments for the Advanced Placement Exam are conducted along with additional lab experiences. Summer assignments are required. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**4410 CHEMISTRY I****Grades 10-12****1 Credit****Prerequisite: Grade of C or better in Algebra I and one year of another lab science**

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. Guided by the Chemistry SOL, students are encouraged to share their ideas, use the language of chemistry, discuss problem-solving techniques, and communicate effectively.

**4470 ADVANCED PLACEMENT CHEMISTRY****Grades 11-12****1 Weighted Credit****Prerequisite: Chemistry I. Recommendation from previous science teacher with a suggested grade of B or better in Chemistry I**

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. Summer assignments are required. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**45101 PHYSICS I****Grades 11-12****1 Credit****Corequisite: Trigonometry or Mathematical Analysis**

Key areas covered in this course include: force and motion, kinetic molecular theory, 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. The use of mathematics, including algebra, inferential statistics, and trigonometry, is important, but conceptual understanding of physical systems remains a primary focus. Students build on basic physical science principles through in-depth exploration of the nature and characteristics of energy and its dynamic interaction with matter. Course objectives stress the practical application of physics in other areas of science and technology and how physics affects our world.

**4570 ADVANCED PLACEMENT PHYSICS B****Grades 11-12****1 Weighted Credit****Prerequisite: Algebra II/Trigonometry and Physics I****Corequisite: Trigonometry or Mathematical Analysis**

This course provides a systematic introduction to the main principles of physics and emphasizes the development of conceptual understanding and problem-solving ability using algebra and trigonometry but rarely calculus. The course offers a foundation in physics for students in life science, pre-medicine, some applied sciences, and other fields not directly related to science. Summer assignments are required. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**42701 ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE****Grades 11-12****1 Weighted Credit****Prerequisites: Successful completion of 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) – is also recommended.**

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 required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**4610 DIRECTED STUDY SCIENCE (BHS, YHS, and YRA only)**

**Grades 11-12**

**1 Credit**

**46104 DIRECTED STUDY SCIENCE (GHS and THS only)**

**Grades 11-12**

**.5 Credit**

This course provides in-depth science study. Content is determined by staff. (May be continued)

## **SPECIAL EDUCATION**

Special education courses are provided for students eligible for special education services. Credit-bearing special education courses may not meet course requirements for a diploma.

**1515 APPLIED ENGLISH**

**Grades 6-8**

**Year**

This individualized instructional course emphasizes basic reading, listening, speaking, spelling, vocabulary, grammar, and writing as outlined on the Individual Education Program (IEP). This course may be offered in a pull-out setting or in a general education setting. (May be continued)

**2997 APPLIED HISTORY/SOCIAL SCIENCE**

**Grades 6-8**

**Year**

This individualized instructional course encompasses the major content components of the history/social science and stresses citizenship and the awareness needed for adult functioning as outlined on the Individual Education Program (IEP). This course may be offered in a pull-out setting or in a general education setting. (May be continued)

**3200 APPLIED MATHEMATICS**

**Grades 6-8**

**Year**

This individualized instructional course is designed to continue mathematics reasoning and calculations skills introduced/mastered in the elementary school as outlined on the Individual Education Program (IEP). This course may be offered in a pull-out setting or in a general education setting. (May be continued)

**4612 APPLIED SCIENCE**

**Grades 6-8**

**Year**

This individualized instructional course introduces/enhances practical science knowledge using a hands-on approach as outlined on the Individual Education Program (IEP). This course may be offered in a pull-out setting or in a general education setting. (May be continued)

**7896 ACADEMIC LAB**

**Grade 6**

**Semester (may be repeated)**

**78961 ACADEMIC LAB**

**Grade 7**

**Semester (may be repeated)**

**78962 ACADEMIC LAB**

**Grade 8**

**Semester (may be repeated)**

These courses are designed to provide adaptive instruction in basic skill areas using innovative teaching strategies and an individualized approach as outlined on the student's Individual Education Plan (IEP). In addition to academic skills, social and transition skills are addressed.

**7898 PRE-VOCATIONAL TRAINING & INDEPENDENT LIVING**

**Grades 6-8**

**Year**

This program 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.

**1516 PRACTICAL ENGLISH**

**Grades 9-12**

**Year**

This individualized instructional course for identified students with disabilities is designed to teach and reinforce the basic oral and written communication skills needed for independent living as outlined on the student's Individual Education Program (IEP). This course may be offered in a pull-out setting or in a general education setting. (May be continued.)

**2998 PRACTICAL HISTORY/SOCIAL SCIENCE****Grades 9-12****Year**

This individualized instructional course for identified students with disabilities 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 Individual Education Program (IEP). This course may be offered in a pull-out setting or in a general education setting. (May be continued)

**3201 PRACTICAL MATH****Grades 9-12****Year**

This is an individualized instructional course of basic mathematical concepts needed for independent living as outlined on the student's Individual Education Program (IEP). This course may be offered in a pull-out setting or in a general education setting. (May be continued.) Practical Math does not count as a mathematics credit for a Standard or a Modified Standard Diploma.

**4612 PRACTICAL SCIENCE****Grades 9-12****Year**

This individualized instructional course for identified students with disabilities 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 Individual Education Program (IEP). This course may be offered in a pull-out setting or in a general education setting. (May be continued)

**78963 PRACTICAL LIFE SKILLS****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 Individual Education Program (IEP). This course may be offered in a pull-out setting or in a general education setting. (May be continued)

**78981 PRE-VOCATIONAL SKILLS****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 Individual Education Program (IEP). This course may be offered in a pull-out setting or in a general education setting. (May be continued)

**78966 ACADEMIC LAB (BHS, YHS and YRA only)****Grades 9-12****1 Credit****78964 ACADEMIC LAB (GHS and THS only)****Grades 9-12****5 Credit****78965 ACADEMIC LAB (GHS and THS only)****Grades 9-12****.5 Credit**

This individualized instructional course develops, strengthens, or reinforces the skills which have been shown to be areas of concern through curriculum-based assessment and which are outlined on the student's Individual Education Program (IEP). In addition to academic skills, social and transition skills are addressed.

**7888 BUSINESS-INDIVIDUALIZED EDUCATION PROGRAM****Grades 9-12**

This course is designed to serve students with special needs who desire and can benefit from business studies. The course is developed cooperatively between business and special education personnel based on the student's Individual Education Program (IEP). Course length is determined by the student's needs and job requirements.

**78982 PROJECT EXPLORE****Grades 9-10**

This course is designed as an introductory course for students with disabilities to assist in understanding, changing and improving specific work behaviors that will help them achieve success in a vocational training program or in the Job Coach Program. 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.

**78983 PROJECT EXPERIENCE**  
**Grades 11–12, PG**  
**1 Credit**

This program provides community-based work adjustment and job training for students with disabilities. Students are enrolled by referral through the Transition Resource Teacher. 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. *Credit for this course counts toward a Modified Standard Diploma.*

**78984 PROJECT SEARCH**  
**Grades PG**

This individualized instruction post graduate program includes a full day of functional instruction and job coaching. Students rotate through internships with mentors and job coaches assisting in job skill development. The goal of this program is competitive employment for student participants. Interested students must go through an application process, including an interview at the hospital and meet normal hospital employment requirements in order to be accepted. Additionally, applicants should have completed their affiliation with the high school, yet remain eligible for services with either a modified standard or special diploma. Referrals should be made to the Transition Resource Teacher. This course is for one year only and may not be repeated.

## TECHNOLOGY EDUCATION

**8481 INTRODUCTION TO TECHNOLOGY**  
**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.

**8464 INVENTIONS & INNOVATIONS**  
**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.

**8463 TECHNOLOGICAL SYSTEMS**  
**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.

**8403 TECHNOLOGY FOUNDATIONS**  
**Grades 9-10**  
**1 Credit**

In this course, students acquire foundation knowledge in technological material, energy, and information and apply processes associated with the technological thinker. Laboratory activities engage students in creating new ideas and innovations, building systems, and analyzing technological products to learn how and why technology works. Working in groups, students build and control systems with computers and creatively apply mathematics, science, and engineering in the development of a technology.

**8435 BASIC TECHNICAL DRAWING/DESIGN/CAD**  
**Grades 9-12**  
**1 Credit**

Basic Technical Drawing/Design 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.

**8436 ENGINEERING DRAWING/DESIGN/CAD**

**Grades 10-12**

**1 Credit**

**Prerequisite:** Basic Technical Drawing/Design

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. 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. Optional TNCC dual enrollment is available for this course. If students choose TNCC dual enrollment (3-credit TNCC course) tuition is charged and credit is awarded at the high school and college. TNCC's application process, placement testing procedures, and timelines must be followed.

**8437 ARCHITECTURAL DRAWING/DESIGN/CAD**

**Grades 10-12**

**1 Credit**

**Prerequisite:** Basic Technical Drawing/Design

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. The course provides information helpful for students wishing to pursue a career in architecture, interior design, or building construction.

**8438 ADVANCED DRAWING/DESIGN/CAD**

**Grades 11-12**

**1 Credit**

**Prerequisite:** Basic Technical Drawing/Design & Engineering Drawing or Architectural Drawing

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.

**8490 INTRODUCTION TO ENGINEERING**

**Grades 10-12**

**1 Credit**

In this course, students are actively involved with high-tech devices, engineering graphics, and mathematics/science principles through problem solving experiences. Activities in descriptive geometry, materials science, and technical systems challenge students as they communicate information through seminars, technical reports, and idea sharing.

**8465 DIRECTED STUDY TECHNOLOGY EDUCATION (BHS, YHS, and YRA only)**

**Grades 11-12**

**1 Credit**

**84651 DIRECTED STUDY TECHNOLOGY EDUCATION (GHS and THS only)**

**84652 Grades 11-12**

**5 Credit**

This course provides in-depth study for technology education students. Students are required to obtain recommendation of the instructor prior to enrolling in this course. (May be continued)

## TRADE & INDUSTRIAL EDUCATION

**86221 COMPUTER SYSTEMS TECHNOLOGY I (MCSE)**

**Grades 10-12**

**1 Credit**

Computer Systems Technology I is the initial component of a program that prepares students to take exams leading to certification in the Microsoft Certified Systems Engineer track. This course is designed for students who enjoy research and exploration related to the technical side of computer networks in a Microsoft environment. In this course leading to Microsoft certification, students are introduced to Microsoft implementation of computer networks. Basic computer networking skills are explored. Concepts of network installation, implementation, and administration in the Microsoft environment prepare students to take appropriate Microsoft certification exams. Optional TNCC dual enrollment is available for this course. If students choose TNCC dual enrollment (3-credit TNCC course) tuition is charged and credit is awarded at the high school and college. TNCC's application process, placement testing procedures, and timelines must be followed.

**86231 COMPUTER SYSTEMS TECHNOLOGY II (MCSE)**

**Grades 11-12**

**1 Credit**

**Prerequisite: Computer Systems Technology I**

Computer Systems Technology II continues to prepare students to take the Microsoft exams that lead to certification in the Microsoft Systems Engineer track. This course builds on the networking concepts introduced in CST I, using the Microsoft network environment. One semester of this course is classroom instruction and labs, and the other semester is mandatory participation in an apprenticeship program with local area businesses. The classroom component of the course prepares students to take the appropriate Microsoft certification exam, leading to Microsoft Certified Engineer certification in the MCSE track. Optional TNCC dual enrollment is available for this course. If students choose TNCC dual enrollment (3-credit TNCC course) tuition is charged and credit is awarded at the high school and college. TNCC's application process, placement testing procedures, and timelines must be followed.

**86241 COMPUTER SYSTEMS TECHNOLOGY III (MCSE)**

**Grades 11-12**

**1 Credit**

**Prerequisite: Computer Systems Technology II**

Computer Systems Technology III broadens and deepens the student's understanding of administration of server-based networks in the Microsoft network environment. Basic server configuration and management principals are reviewed, and advanced concepts of server administration are introduced. Much of this class is dedicated to specific study guides and practice exams to prepare the student for a Microsoft Certification exam in server management. Students who have taken CST II will become completers by finishing this course. This course is one of several offered as part of York County's Microsoft IT Academy Program, a partnership between Microsoft and the York County School Division.

**8688 TELEVISION PRODUCTION I**

**Grades 10-12**

**2 Credits**

This is a double-period, two-credit course providing instruction in the operation of studio cameras, monitors, lighting, audio, and other video technology. Students explore the principles of producing and directing live-on-tape TV programs. The course is recommended for students interested in post-secondary communications education and internships.

**8689 TELEVISION PRODUCTION II**

**Grades 11-12**

**2 Credits**

**Prerequisite: Television Production I**

This is a double-period, two-credit course that continues instruction in video production computer technology in real-world, non-studio environments (field production). Students may regularly produce videos for various departments in the school division and may spend additional instructional time outside the classroom during non-school hours.

**8690 TELEVISION PRODUCTION III**

**Grade 12**

**2 Credits**

**Prerequisite: Television Production II**

This is a two-credit course providing an internship opportunity working with the county's information office video department. Students who have successfully completed Television Production I and Television Production II are recommended on an individual basis by the instructor, guidance counselor, and internship sponsor. Year-long on-the-job experience is a requirement for participation.

## WORLD LANGUAGES

**57001 EXPLORATORY WORLD LANGUAGE/WORLD CULTURES**

**Grade 6**

**Quarter**

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

**57002 EXPLORATORY FRENCH & SPANISH 6**

**Grade 6**

**Quarter**

This course provides an introduction to the French and Spanish culture and languages.

**57003 EXPLORATORY WORLD LANGUAGE**

**Grades 7-8**

**Semester**

This course provides an introduction to the cultural heritage and beginning conversational skills in French and Spanish.

**V5700 SURVEY OF WORLD LANGUAGES (On-line)**

**Grades 7-8**

**Year**

This course is designed to expose middle school students to the language and culture of four World Languages; Latin, Spanish, French, and Chinese. Students will practice beginning conversational skills, written concepts and oral language to prepare for level one World Language courses. Students are actively engaged in online discussion and learn to track messages, submit documents electronically, and meet online in "live" sessions with teachers and students using a chat component virtual whiteboard.

**LEVEL I COURSES**

**5110 FRENCH I**  
Grades 7-12  
1 Credit

**5510 SPANISH I**  
Grades 7-12  
1 Credit

**5210 GERMAN I**  
Grades 8-12  
1 Credit

**V5810 MANDARIN CHINESE I (On-Line)**  
Grades 8-12  
1 Credit

**V5010 ARABIC I (On-Line)**  
Grades 8-12  
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.

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

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

**(NOTE: Latin I – IV will be offered virtually beginning at 8<sup>th</sup> grade for students who do not have Latin courses available in their high schools.)**

**LEVEL II COURSES**

**5120 FRENCH II**  
Grades 8-12  
1 Credit

**5520 SPANISH II**  
Grades 8-12  
1 Credit

**5220 GERMAN II**  
Grades 9-12  
1 Credit

**V5820 MANDARIN CHINESE II (On-Line)**  
Grades 9-12  
1 Credit

**Prerequisite: Level I of selected World Language**

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 writing in the World Language with minimal use of English in the classroom. 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. **(NOTE: German I – IV will be offered virtually beginning at 8<sup>th</sup> grade for students who do not have German courses available in their high schools.)**

**5320 LATIN II**  
Grades 9-12  
1 Credit

**Prerequisite: Level I Latin**

Level II Latin emphasizes grammatical patterns and vocabulary with the translation of Latin stories at an intermediate level of difficulty. **(NOTE: Latin I – IV will be offered virtually beginning at 8<sup>th</sup> grade for students who do not have Latin courses available in their high schools.)**

**LEVEL III COURSES**

**5130 FRENCH III**  
Grades 9-12  
1 Credit

**5530 SPANISH III**  
Grades 9-12  
1 Credit

**5230 GERMAN III**  
Grades 10-12  
1 Credit

**V5830 MANDARINE CHINESE III (On-Line)**  
Grades 10-12  
1 Credit

**Prerequisite: Level II of selected World Language**

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 writing at a higher level with minimal use of English in the classroom. 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. **(NOTE: German I – IV will be offered virtually beginning at 8<sup>th</sup> grade for students who do not have German courses available in their high schools.)**

**5330 LATIN III**  
**Grades 10-12**  
**1 Credit**

**Prerequisite: Level II Latin**

Level III Latin builds on grammatical forms and patterns and begins a study of selected Roman authors in prose and poetry. **(NOTE: Latin I – IV will be offered virtually beginning at 8<sup>th</sup> grade as well as for students who do not have Latin courses available in their high schools.)**

**LEVEL IV COURSES**

**5140 FRENCH IV**  
**Grades 10-12**  
**1 Weighted Credit**

**5540 SPANISH IV**  
**Grade 10-12**  
**1 Weighted Credit**

**5240 GERMAN IV**  
**Grades 11-12**  
**1 Weighted Credit**

**V5840 MANDARIN CHINESE IV (On-Line)**  
**Grade 11-12**  
**1 Weighted Credit**

**Prerequisite: Level III of selected World Language**

Students continue to develop and refine their proficiency in all four language skills-listening, speaking, reading, and writing-with 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. **(NOTE: German I – IV will be offered virtually beginning at 8<sup>th</sup> grade for students who do not have German courses available in their high schools.)**

**5340 LATIN IV**  
**Grade 11-12**  
**1 Weighted Credit**  
**Prerequisite: Level III Latin**

Level IV Latin continues the study of Roman prose and poetry within the context of Roman history and its contributions to our modern world.

**5170 ADVANCED PLACEMENT FRENCH LANGUAGE**  
**Grades 11-12**  
**1 Weighted Credit**  
**Prerequisite: Level IV French/Teacher Recommendation**

This course is designed to prepare students to take the Advanced Placement exam for college credit. Students develop more advanced communication skills in all four areas – listening, speaking, reading and writing – with 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. The primary language spoken at this level is French. Summer assignments are required. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**5570 ADVANCED PLACEMENT SPANISH LANGUAGE**  
**Grades 11-12**  
**1 Weighted Credit**  
**Prerequisite: Level IV Spanish/Teacher Recommendation**

This course is designed to prepare students to take the Advanced Placement exam for college credit. Students develop more advanced communication skills in all four areas – listening, speaking, reading and writing – with 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. The primary language spoken at this level is Spanish. Summer assignments are required. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**V5380 ADVANCED PLACEMENT LATIN LITERATURE (On-line)**  
**Grades 11-12**  
**1 Weighted Credit**

**Prerequisite: Latin III**

This course is designed to prepare students to take the Advanced Placement exam for college credit. Students will translate accurately from Latin into English the poetry or prose they are reading and will demonstrate a grasp of grammatical structures and vocabulary. Stylistic analysis is an integral part of the advanced work in Advanced Placement Latin Literature as students will read and interpret poetry and prose at sight. Students will study and analyze passages from the poetry of Catullus paired with selections from Ovid. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**V5860 ADVANCED PLACEMENT CHINESE LANGUAGE AND CULTURE (On-line)****Grades 11-12****1 Weighted Credit**

Students will demonstrate proficiency in presentational, interpersonal and interpretive communication through listening, speaking, reading and writing. Emphasis is placed on exploration of contemporary and historical Chinese cultures and the study of a variety of themes related to the Chinese Language and culture. Students will broaden their global perspectives and compare Chinese cultures with their own environment. The primary language spoken at this level is Chinese. Summer assignments are required. Students who have enrolled in a virtual Virginia world Language course will be required to take a nationally recognized examination in their language as part of this course. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course.

**5150 ADVANCED FRENCH CONVERSATION, COMPOSITION & LITERATURE (BHS, YHS & YRA only)****Grade 10–12****1 Weighted Credit****Prerequisite: French IV**

This course is conducted solely in French and is designed to give the advanced student the opportunity to refine and perfect their proficiency in all four language skills (listening, speaking, reading and writing) utilizing more complex vocabulary and grammatical structures. In this course, students are expected to listen, understand and produce French comprehensible to the native speaker, read, interpret and analyze authentic selections, and write at an advanced level. This course is designed to help prepare students for college level coursework.

**5550 ADVANCED SPANISH CONVERSATION, COMPOSITION & LITERATURE (BHS, YHS & YRA only)****Grade 10–12****1 Weighted Credit****Prerequisite: Spanish IV**

This course is conducted solely in Spanish and is designed to give the advanced student the opportunity to refine and perfect their proficiency in all four language skills (listening, speaking, reading and writing) utilizing more complex vocabulary and grammatical structures. In this course, students are expected to listen, understand and produce Spanish comprehensible to the native speaker, read, interpret and analyze authentic selections, and write at an advanced level. This course is designed to help prepare students for college level coursework.

**5105 DIRECTED STUDY FRENCH  
(BHS, YHS, and YRA only)  
Grades 11-12  
1 Credit**

**51051 DIRECTED STUDY FRENCH  
51052 Grades 11-12  
.5 Credit**

**5205 DIRECTED STUDY GERMAN  
(BHS, YHS, and YRA only)  
Grades 11-12  
1 Credit**

**52051 DIRECTED STUDY GERMAN  
52052 (GHS and THS only)  
Grades 11-12  
5 Credit**

**5305 DIRECTED STUDY LATIN  
(BHS, YHS, and YRA only)  
Grades 11-12  
1 Credit**

**53051 DIRECTED STUDY LATIN  
53052 Grades 11-12  
.5 Credit**

**5505 DIRECTED STUDY SPANISH  
(BHS, YHS, and YRA only)  
Grades 11-12  
1 Credit**

**55051 DIRECTED STUDY SPANISH  
55052 (GHS and THS only)  
Grades 11-12  
5 Credit**

World Language directed study is in-depth study designed to explore, with the consent and direction of the teacher, a specific topic or area in the selected World Language. These courses do not replace any upper level of World Language study. (May be continued)

**5710 ENGLISH AS A WORLD LANGUAGE I****Grades 9–12****1 Credit**

This course is designed to help English language learners with proficiency in vocabulary development, grammar, word order, and parts of speech; to practice oral communication and to develop writing skills by learning language patterns. 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

**5720 ENGLISH AS A WORLD LANGUAGE II**

**1 Credit**

**Grades 10-12**

**Prerequisite:** English as a World Language I

This course follows English as a World Language I and is designed to assist English language learners with proficiency in vocabulary development, grammar, word order, and parts of speech; to practice oral communication and to develop writing skills by learning language patterns. 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.

**GOVERNOR’S SCHOOL FOR SCIENCE & TECHNOLOGY (GSST)**

The Governor’s School is a two-year, half-day program for 11<sup>th</sup> and 12<sup>th</sup> graders. 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:

**Pre-Admissions Procedures**

Admission to the program is highly competitive. A standardized test will be administered to a pool of 8<sup>th</sup> grade students who have been recommended for possible admission. Test scores as well as teacher recommendations and course grades will be used to determine which students will be invited to participate in the Governor’s School Pre-Admissions Series offered in 9<sup>th</sup> and 10<sup>th</sup> grade. Designated students will take prerequisite courses offered in their high schools and will participate in a variety of after-school activities offered at the school that will acquaint and prepare them for the two-year program.

**Admissions Procedures**

Final acceptance into the Governor’s School is determined in the spring of students’ tenth grade year. Math and science grade point averages (GPAs), teacher recommendations, and PSAT scores are considered.

**Program Model for Governor’s School for Science and Technology (GSST)**

Grade 9	Grade 10	Grade 11	Grade 12
* Advanced English 9	* Advanced English 10	*AP English 11 or English 11	*AP English 12 or English 12
*AP Human Geography or World History I	*AP European History or World History II	*AP VA /US History or VA/US History	*AP VA/US Government or VA /US Government
**French or Spanish I or II, Latin, German or, Mandarin Chinese I	**French or Spanish II or III, Latin, German or, Mandarin Chinese I or II	**French or Spanish III or IV, German or Latin III (or I or II), AP French Language , AP Spanish Language, AP Latin Literature, (Virtual) OR Mandarin Chinese I , II, or III	**French, Spanish, German or Latin IV (or II), AP French Language, AP Spanish Language, AP Latin Literature. Virtual OR Mandarin Chinese I ,II, or III
*Adv. Geometry or *Algebra II/Trigonometry	*Algebra II/Trigonometry or Math Analysis	Students who attend GSST in 11 <sup>th</sup> and 12 <sup>th</sup> grades will take the three courses above at Bruton, Grafton, Tabb, or York High Schools. GSST students will be enrolled in the Engineering, the Biological Science, or the Scientific Programming Strand (see below).  Students from York County high schools usually attend GSST for the PM Session	
Biology I	Chemistry I		
Health/Physical Education 9 or NJROTC	Health/Physical Education 10		
Fine Arts Elective	Economics and Personal Finance		
* = Weighted Course ** = to earn an Advanced Diploma, students must complete at least three years of one World Language or two years of two different World Languages			

**Engineering Strand**

The Engineering Strand involves an intense, rigorous study of fundamental principles of engineering and calculus-based physics. Students develop a passion for calculus and physics during their junior year. Building a robot, constructing a fuel cell, and then proceeding to online technology that studies air-bag deployment principles in automobiles are just a few of the engineering activities students experience in the course. The ideas of Maxwell and Hawking are studied during the senior year. Understanding the physics behind such inventions as the TV, computers, and magnetic resonance imaging technology round out the senior year.

**Grade 11:**

<b>4571</b>	Calculus-based Engineering Physics I: Foundations & Modeling
<b>4610</b>	Research Methodology & Ethics
<b>3177</b>	Calculus

**Grade 12:**

<b>4580</b>	Calculus-based Engineering Physics II: Maxwell to Hawking
<b>4611</b>	Honors Research / Mentorship Program
<b>3190</b>	Statistical Research Methods <b>or</b>
<b>4271/46121</b>	Environmental Science: Research Applications/ Mentorship
<b>3177/3178</b>	Calculus or Multivariable Calculus/Linear Algebra

**Biological Science Strand**

The Biological Science Strand provides insights into organic and inorganic chemistry in conjunction with cell and molecular biology by employing advanced technologies utilized in medicine, forensic science, and research labs. An advanced level understanding of biology and chemistry sets the stage for senior students to argue controversial topics concerning the environment. Extensive fieldwork and laboratory analysis generates a nine-month database for a more comprehensive understanding of our local environment.

**Grade 11:**

<b>4471</b>	Advanced Chemical Analysis
<b>4610</b>	Research Methodology & Ethics
<b>31621/3177</b>	Modern Pre-Calculus or Calculus

**Grade 12:**

<b>4371</b>	Advanced Biological Analysis
<b>4611</b>	Environmental Science: Modern Applications of Research / Mentorship
<b>4271/46121</b>	Environmental Science: Research Applications/ Mentorship
<b>3190</b>	Statistical Research Methods <b>or</b>
<b>3177/3178</b>	Calculus or Multivariable Calculus/Linear Algebra

**Scientific Programming Strand**

The Scientific Programming Strand combines the study of structured and object-oriented programming with applications in practical, non-calculus based, physics scenarios. Students will develop insight into advanced applying programming techniques to real world situations. Physics topics include classical mechanics, fluid dynamics and thermodynamics. Using "calling functions" to study the speed of sound in objects and analyzing operator overloading are just a few of the unique approaches to master C/C++ in a Unix environment while learning physics. The second year course will include features of microprocessors and assembly language programming.

**Grade 11:**

<b>4510/3181</b>	Inquiry Physics & Scientific Programming I – Dynamics
<b>4610</b>	Research Methodology & Ethic
<b>31621/3177</b>	Modern Pre-Calculus or Calculus

**Grade 12:**

<b>4520/3182</b>	Inquiry Physics & Scientific Programming II – Digital Devices
<b>4611</b>	Honors Research / Mentorship Program
<b>3190</b>	Statistical Research Methods <b>or</b>
<b>3177/3178</b>	Calculus or Multivariable Calculus/Linear Algebra

**31621 MODERN PRE-CALCULUS****Grade 11/GSST****1 Weighted Credit**

This course is an intensive, reform approach to mathematics designed to prepare students for college calculus. Students will focus on discussion and mathematical problem solving in elementary vector analysis, explicitly defined exponential, polynomial, logarithmic and trigonometric functions, as well as functions that are defined recursively and parametrically. Investigations of functions, bivariate data, and models will involve graphing calculators and computers. Both graphical and analytic approaches to problem solving will be emphasized and modeled, and calculus techniques for solving mathematical equations will be introduced.

**3177 CALCULUS**  
**Grades 11-12/GSST**  
**1 Weighted Credit**

This course is an integrated approach to learning calculus through calculus related real-world problems. Students will gain an in-depth understanding of limits, continuity and asymptotic behavior of functions, differential calculus, integral calculus, the Fundamental Theorem of Calculus, advanced techniques of integration, first-degree differential equations and modeling, the study of sequences and series, and the calculus of parametrically defined functions. Successful completion of this course will prepare students to enroll in multivariable calculus.

**3178 MULTIVARIABLE CALCULUS/LINEAR ALGEBRA**  
**Grades 11-12/GSST**  
**1 Weighted Credit**

This course emphasizes computational techniques, geometry and theoretical structure, creative problem solving, and proofs. Additional topics incorporate parametric equations, curves and surfaces in three dimensions, vector functions, coordinate systems, partial differentiation and total differentials with applications, multiple integrals with applications, and vector calculus from various areas of application. Students will also learn how to use a computer algebra system to pose, visualize and solve problems in advanced calculus.

**3190 STATISTICAL RESEARCH METHODS**  
**Grade 12/GSST**  
**1 Weighted Credit**

In this course, students will learn the basic techniques of statistical analysis, applications of these techniques in solving problems from a variety of areas, and the advantages and limitations of statistical methods. The emphasis of the course is on the interpretation of the statistical results rather than mere computation. The student will learn the basic techniques of statistical analysis including sampling, estimations, data analysis, probability, random variables, regression analysis, hypothesis testing for means, proportions, Chi-square, ANOVA, and several non-parametric tests (sign test, ranking strategies, Wilcoxon tests, Kruskal-Wallis and Spearman's Rank Correlation tests), additionally, students will learn epidemiology techniques such as relative risk and disease transmission.

**4271/46121 ENVIRONMENTAL SCIENCE: RESEARCH APPLICATIONS/ MENTORSHIP**  
**Grade 12/GSST**  
**2 Weighted Credits**

In the fall semester, students will integrate aspects of biology, chemistry, ecology, earth science, and physics in the study of the environment. Exploration of relationship between organisms and the biotic and abiotic environment at multiple levels of biological system hierarchy serves as the foundation for this course. Laboratory and field work in various ecosystems are also integral components of the course. Students will undertake monthly sampling of a nearby pond ecosystem for water quality and biotic components. Field methods include quadrat and transect sampling as well as various techniques for surveying animal communities and monitoring water quality. While analyzing their own data, students will become familiar with concepts such as spatial and temporal variation in natural systems, species diversity, and community similarity indices. Critical thinking, risk analysis, and cost-benefit analysis will be emphasized as students identify and analyze alternative solutions to complex environmental problems. Whenever possible, current or ongoing environmental issues and/or case histories will be emphasized. Spring semester will emphasize ecological principals from physiological ecology to ecosystem ecology. The Honors Research and Mentorship program (HRM) involves students in concentrated research or project development in firms and laboratories throughout the Tidewater area. They are supervised by mentors who are accomplished scientists, engineers, and other professionals. Students must plan, implement, document and present research/projects chosen in consultation with these mentors. Accordingly, the students develop and refine their research and presentation techniques, problem-solving, critical thinking, and leadership skills. This experience provides students with an opportunity to integrate theory, knowledge, and application through a research experience, to analyze their own data, and to identify and analyze alternative solutions to complex environmental and ecological problems.

**4270 CONCEPTS & CONTROVERSIES IN ENVIRONMENTAL SCIENCE**  
**Grade 12/GSST**  
**2 Weighted Credits**

In this course, students will integrate aspects of biology, chemistry, ecology, earth science, and physics in the study of the environment. Exploration of relationship between organisms and the biotic and abiotic environment, laboratory and field work in various ecosystems, field methods including quadrat and transect sampling, and techniques for surveying animal communities and monitoring water quality are included. Students will use spatial and temporal variation in natural systems, species diversity, and community similarity indices to analyze their own data and to identify and analyze alternative solutions to complex environmental and ecological problems.

**4371 ADVANCED BIOLOGICAL ANALYSIS**  
**Grade 12/GSST**  
**2 Weighted Credits**  
**Prerequisites: Biology and Algebra II/Trig**

This course focuses on cell and molecular biology and examines the anatomy and physiology of vertebrate organ systems. Laboratory investigations will focus on properties of biological molecules, enzyme kinetics, cell structure and division, gene

expression, and techniques used in biotechnology including PCR, DNA fingerprinting, gel electrophoresis, cell transformation and gene cloning. Application of the scientific method is stressed as students learn to analyze and interpret their own results. Through laboratory activities and dissections, students will learn the anatomy and physiology of various organisms in a comparative anatomy format. Advanced Biological Analysis is a college-level course with a strong focus on laboratory work. It examines topics typically studied during the first year of college.

**4471            ADVANCED CHEMICAL ANALYSIS**

**Grade 11/GSST**

**2 Weighted Credits**

***Prerequisites: Chemistry and Algebra II/ Trigonometry***

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 kinetics, acid/base chemistry, and equilibrium. The course will provide insights into organic and inorganic chemistry. The students will explore advanced concepts such as thermochemistry, electrochemistry, and organic chemistry. The course will emphasize problem solving through chemical calculations.

**4510/3181      INQUIRY PHYSICS & SCIENTIFIC PROGRAMMING I**

**Grade 11/GSST**

**2 Weighted Credits**

This course integrates the fundamentals of structured and object-oriented programming (C/C++/UNIX) with Newtonian mechanics, thermodynamics, and fluid dynamics. A conceptual understanding of atomic and nuclear physics will be developed. Programming tools presented will include variable types, control structures, loops, arrays, structures, pointers, dynamic memory, classes, inheritance and polymorphism, queues and trees. The results of numerical problems and laboratory experiments in physics will be compared and contrasted with computer simulations written in C/C++ (Both science and math credits).

**4520/3182      INQUIRY PHYSICS & SCIENTIFIC PROGRAMMING II**

**Grade 12/GSST**

**2 Weighted Credits**

This course integrates the fundamentals of assembly language and C++ with non-calculus based physics (electromagnetism, circuit theory, microprocessors, and digital logic). Optics, waves, and quantum mechanics will be covered, and assembly language tools will be applied to microprocessor theory. Laboratory experiments in other topics will be supplemented by computer programming projects in C++.

**45701            CALCULUS-BASED ENGINEERING PHYSICS I: FOUNDATIONS AND MODELING**

**Grade 11/GSST**

**2 Weighted Credits**

This course explores classical mechanics and thermodynamics through in-depth discussion, project development, and experimental laboratory activities. Modeling of physical processes and application of knowledge will be emphasized, and laboratory experiments to investigate fundamental physics and mathematical theories will be conducted using air-tracks, ballistic pendulums, and thermoelectric transfer devices. Other topics include Error propagation analysis, Robotics, and software applications. Activities will include building multi-stage water rockets and Rube Golberg machines, data analysis, vector orienteering, and the study of kinematics in baseball.

**4580            CALCULUS-BASED ENGINEERING PHYSICS II: MAXWELL TO HAWKING AND BEYOND**

**Grade 12/GSST**

**2 Weighted Credits**

In this course, students will investigate electric and magnetic field theory, DC circuit theory, and geometric optics as well as quantum mechanics. Themes of conservation and symmetry will be synthesized and 3-D visualization skills will be developed. Optical benches, spectrometers, and lasers will be used to conduct laboratory experiments, and *E&M Field* software will allow students to investigate electric and magnetic fields associate with different charge and current distributions.

**4610            RESEARCH METHODOLOGY & ETHICS**

**Grade 11/GSST**

**1 Weighted Credit**

This course provides students with a basic understanding of scientific research design, experimental design, and statistical analysis. In addition, a broader understanding of current technological applications in research communication will be explored. Research ethics will include the study of national and international codes of human subjects research, the role of scientists in society, and the theory and practice of ethics in different disciplines. Technical writing and communication of research findings will be emphasized and statistical software (*MiniTab* and BASIC computer programming) will enhance understanding of research design. Students will complete a research project for presentation at the Tidewater Science Fair. This course prepares students for the Honors Research and Mentorship Program.

## INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAMME

The International Baccalaureate (IB) Diploma Programme is a college preparatory course of study for academically talented students in grades 11 and 12. Admission to the York High Pre-Diploma Programme for grades 9 and 10 is by application, and the program prepares accepted students for participation in the IB Diploma Programme in their junior and senior years. All IB courses are taught by instructors trained in IB instruction at workshops conducted 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 interdisciplinary nature of the IB liberal arts curriculum.

Students who complete the York High Pre-Diploma courses in grades 9 and 10 may enroll in the IB course of study that spans grades 11 and 12. IB courses marked SL (Standard Level) require a minimum of 150 instructional hours with some weighted courses. Courses marked HL (Higher Level) require 240 instructional hours and carry weighted credit. In addition to courses from six areas, the following are requirements of the IB Programme: a Theory of Knowledge (TOK) course, 150 hours of Creativity Action Service (CAS), and an Extended Essay (4,000 words of original research). Students who complete the full requirements of the IB Programme (minimum GPA of 3.4, TOK, CAS, Extended Essay) in grades 11 and 12 and who pass six IB examinations (3 at the HL level and 3 at the SL level) are eligible to receive the IB Diploma (issued by the IBO) in addition to the appropriate York County School Division diploma. Students who complete the IB course components and who pass fewer than six IB examinations are eligible to receive IB certificates for the IB examinations passed with their York County School Division diploma. Students with demonstrated financial need may request a waiver of the IB examination fee from the principal.

Students in grades 11 and 12 who have not been accepted to the full International Baccalaureate Programme may enroll in an IB course (either SL or HL) with teacher recommendation provided there is space available, no AP course is offered addressing the same subject and /or content, the students receives two teacher recommendations, and all course-specific prerequisites have been met. Students choosing to enroll in an IB course must take the IB examination following the course of study. Diploma Program Course students are responsible for the costs associated with the examination and the IB registration as explained in the Student Handbook.

### Pre-Diploma Course of Study

**Grade 9** – Advanced English 9<sup>1</sup>; Advanced Placement World History<sup>1</sup>; Advanced Geometry<sup>1</sup> or Algebra II/Trigonometry<sup>1</sup>; Biology I; French or Spanish II or III; Health/PE 9; Fine/Practical Arts Elective (may be Latin or Mandarin Chinese); Economics/Personal Finance

**Grade 10** – Advanced English 10<sup>1</sup>; Advanced Placement United States Government & Politics<sup>1</sup>; Algebra II/Trigonometry<sup>1</sup> or Math Analysis; Chemistry I; French or Spanish III or IV<sup>1</sup>; Health/PE 10; Fine/Practical Arts Elective (may be Latin or Mandarin Chinese). <sup>1</sup> Indicates weighted credit.

### IB Course of Study

**Grade 11** – IB studies in Language and Literature English (HL)<sup>1</sup>; IB Language B-French (SL)<sup>1</sup> or IB Language B-Spanish (SL)<sup>1</sup>; IB History of the Americas (HL)<sup>1</sup>; IB Mathematics (HL)<sup>1</sup>, IB Mathematics (SL), or IB Mathematical Studies (SL); Biology (HL)<sup>1</sup>, Physics (HL)<sup>1</sup>, or Physics (SL); Geography (SL) or Theatre (HL)<sup>1</sup>; Theory of Knowledge<sup>1</sup> (TOK); Extended Essay; CAS.

**Grade 12** – IB studies in Language and Literature English (HL)<sup>1</sup>; IB Language B-French (SL)<sup>1</sup> or IB Language B-Spanish (SL)<sup>1</sup>; IB History of the Americas (HL)<sup>1</sup>; IB Mathematics (HL)<sup>1</sup> or IB Mathematics (SL)<sup>1</sup>; Biology (HL)<sup>1</sup>, Physics (HL)<sup>1</sup>, or Physics (SL); Geography (SL) or Theatre (HL)<sup>1</sup>; Theory of Knowledge (TOK); Extended Essay; CAS.

<sup>1</sup> Indicates weighted credit.

### IB Information

York High School is the site for the International Baccalaureate (IB) Programme in the York County School Division. A full IB Diploma Programme is available to eligible students within the Division. Additionally IB Diploma Programme Courses are available on a certificate basis for non-Diploma candidates with teacher recommendation.

- York High Pre-Diploma and IB students are enrolled in York High School. Parents of IB students who are zoned for Bruton High, Grafton High, and Tabb high sign a waiver releasing the student from their home school zone and enrolling them in York High School. Students opting out of the Pre-Diploma or IB Diploma Programme will return to their home school unless they obtain approval from the School Board Office to remain at 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.
- The minimum grade point average for the IB Programme is indicated in the IB Programme admissions agreement. Pre-Diploma/IB students are required to have a minimum GPA of 3.0 at the end of 9<sup>th</sup> grade, a 3.25 at the end of 10<sup>th</sup> grade, and a 3.4 at the end of 11<sup>th</sup> grade. Students who do not maintain the minimum GPA are subject to being withdrawn from the IB Programme.
- Students may not earn a final grade lower than a C in any course and remain in the York High Pre-Diploma/IB Programme.
- Pre-Diploma students may opt to leave the York High Pre-Diploma Programme and re-enroll in the honors program at their home school if they meet honors requirements. Academic courses taken by students in the IB Programme must be

completed during the regular academic year, not during summer school, with the exceptions of Virtual High School Health and PE 9 or 10 and/or Virtual High School Economics and Personal Finance.

- Only students who have been officially admitted to the Pre-Diploma/IB Programme or those who have received teacher recommendation may enroll in Pre-Diploma/IB courses.
- Students not officially admitted to the International Baccalaureate Programme may earn a certificate for each IB examination completed, but are not eligible for the IB Diploma.

The York County School Division was accepted for affiliation with the IBO during the 1998-1999 school year. Applications and information regarding the IB Diploma Programme, which is housed at York High School, may be obtained from the guidance department at each middle school or from the IB Programme Coordinator (890-5014).

## **GRADE 9**

**1131 ADVANCED ENGLISH 9**  
(Refer to English course listing.)

**2380 ADVANCED PLACEMENT WORLD HISTORY**  
**Year/ 1 Weighted Credit (This course is offered only to Pre-Diploma 9<sup>th</sup> grade students at York High School)**  
**Prerequisite: Admission into the Pre-Diploma Programme**

The purpose of the Advanced Placement World History course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. Summer assignments are required. Students taking this course are required to take the Advanced Placement Exam. Students who do not take the Advanced Placement Exam will not receive credit for the course. All students in this course will take both the SOL test for World History to 1500AD and for World History 1500AD to present.

**31433 ADVANCED GEOMETRY: 3137 ALGEBRA II/TRIGONOMETRY**  
(Refer to Mathematics course listing.)

**4310 BIOLOGY I**  
(Refer to Science course listing.)

**5120 FRENCH II, 5130 FRENCH III, 5520 SPANISH II OR 5530 SPANISH III**  
(Refer to World Language course listing.)

**7300 HEALTH & PHYSICAL EDUCATION 9**  
(Refer to Health & Physical Education course listing.)

**6120 ECONOMICS & PERSONAL FINANCE**  
(Refer to Economics and Personal Finance course listing in Business Section)

## **GRADE 10**

**1141 ADVANCED ENGLISH 10**  
(Refer to English course listing.)

**2445 ADVANCED PLACEMENT U.S. GOVERNMENT & POLITICS**  
(Refer to History/Social Science course listing.)

**3137 ALGEBRA II/ TRIGONOMETRY OR 3162 MATHEMATICAL ANALYSIS**  
(Refer to Mathematics course listing.)

**4410 CHEMISTRY I**  
(Refer to Science course listing.)

**5130 FRENCH III, 5140 FRENCH IV, 5530 SPANISH III OR 5540 SPANISH IV**  
(Refer to World Language course listing.)

**7405 HEALTH & PHYSICAL EDUCATION 10**  
(Refer to Health & Physical Education course listing.)  
**ELECTIVE**

## **GRADE 11**

**IB 1150 IB STUDIES IN LANGUAGE AND LITERATURE – English (HL)**  
**Grade 11**  
**1 Weighted Credit**  
**Prerequisite: Advanced English 10**

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. The second year of this course is completed in 12th grade. NOTE: Only student admitted into the IB Diploma Programme may enroll in this course.

**IB 2360 IB 20<sup>th</sup> CENTURY WORLD HISTORY (HL)**

**Grade 11**

**1 Weighted Credit**

**Prerequisite: Advanced Placement World History & Advanced Placement U.S. Government and Politics**

This course focuses on the history of the Americas and topics in 20<sup>th</sup> century world history. United States and Latin American history are covered from the colonial period to the present. World history topics include: 20<sup>th</sup> 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 12<sup>th</sup> grade. NOTE: Only students admitted to the IB Diploma Programme may enroll in this course.

**IB 2210 IB GEOGRAPHY (SL) (Group 6 Option)**

**Grade 11 or 12**

**1 Credit**

**Prerequisite: Admission to IB Diploma Programme OR Teacher Recommendation**

IB Geography is designed to fulfill the requirements for the Group 6 course/elective offering of the IB Diploma Programme. Population dynamics are studied with regard to the distribution and density of world population and population changes. The relationship of population to resources is explored, as well as the projected factors that affect global and specific rates of fertility, mortality, life expectancy, and rates of natural increase. Economic growth and development and human responses to natural hazards are given in-depth study. External and internal assessments are compiled in fulfillment of IB Diploma Programme requirements. NOTE: Only students admitted to the IB Diploma Programme or receiving teacher recommendation may enroll in this course.

**IB 31701 IB MATHEMATICS (HL)**

**Grade 11**

**1 Weighted Credit**

**Prerequisite: Mathematical Analysis. Algebra II/Trigonometry**

The first year of this course focuses on the study of calculus. Students begin a portfolio that is assessed upon completion of the second year of the course. The second year of the course includes: advanced study of numbers and algebra, functions and equations, circular functions, trigonometry, vector geometry, matrices and transformations, probability and statistics, advanced calculus, and discrete mathematics. Instruction is geared toward the successful completion of IB Diploma requirements and IB Examination preparation. NOTE: Only students admitted into the IB Diploma Programme or receiving teacher recommendation may enroll in this course.

OR

**IB 31951 IB MATHEMATICS (SL)**

**Grade 11**

**1 Weighted Credit**

**Prerequisite: Algebra II/Trigonometry**

This course includes advanced topics in numbers and algebra, functions, equations, introduction to circular functions, trigonometry, matrices, vectors, probability, statistics, and calculus. The first year of IB Mathematics (SL) is intended to prepare students for detailed study of statistics, probability, and calculus in the second year of the course. Students complete a portfolio in fulfillment of the IB Diploma Programme that is assessed at the conclusion of the second year. NOTE: Only students admitted into the IB Diploma Programme or receiving teacher recommendation may enroll in this course.

OR

**IB 4380 IB BIOLOGY (HL)**

**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, unity 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 12<sup>th</sup> grade. NOTE: Only students admitted into the IB Diploma Programme or receiving teacher recommendation may enroll in this course.

OR

**IB 45801 IB PHYSICS (SL)**

**Grade 11**

**1 Weighted Credit**

This is the first part of a two-year course designed to satisfy the IB science requirement at the Standard Level. Topics covered include measurement, mechanics, thermal physics, waves, and optics. Extensive laboratory investigations are part of instruction. Group 4 projects commence during this course. Students are required to complete a lab portfolio that contains all lab work performed. Instruction is geared toward the successful completion of IB Diploma requirements and IB Examination preparation. The second year of this course is completed in 12<sup>th</sup> grade. NOTE: Only students admitted into the IB Diploma Programme or receiving teacher recommendation may enroll in this course.

OR

**IB 45901 IB PHYSICS (HL)****Grade 11****1 Weighted Credit**

This course covers the core components of IB Physics (SL) in more depth, and a number of additional physics components are added. During the second year, students complete two of the following options: biomedical physics, historical physics, astrophysics, special and general relativity, or optics. Experiments (with a portfolio of investigations) are conducted in lab settings by the students. The Group 4 project and the required lab work for internal assessment are completed in the course. Students take the second year of this course in 12<sup>th</sup> grade. NOTE: Only students admitted into the IB Diploma Programme or receiving teacher recommendation may enroll in this course.

**IB 5142 IB LANGUAGE B – FRENCH (SL)****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 12<sup>th</sup> grade. NOTE: Only students admitted into the IB Diploma Programme or receiving teacher recommendation may enroll in this course.

**OR****IB 5542 IB LANGUAGE B – SPANISH (SL)****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 12<sup>th</sup> grade. NOTE: Only students admitted into the IB Diploma Programme or receiving teacher recommendation may enroll in this course.

**IB 1197 THEORY OF KNOWLEDGE (TOK)****Grade 11 or 12****1 Weighted Credit*****Prerequisite: Admission to the IB Diploma Programme or Teacher Recommendation***

This course is a requirement in partial fulfillment of the IB Diploma Programme. The course focuses on the understanding and development of the systems of knowledge that exist in the world. Through a variety of sources, the student studies the ways of knowing and areas of knowledge in an effort to acquire an understanding of the totality of knowledge. The goal of the course is for students to unify their own thoughts about knowledge and increase their understanding of the world around them. Assessments include: presentations, journal entries, and one essay of 1,200-1,600 words at the conclusion of the course on topics prescribed by IBO.

**IB144012 IB THEATRE ARTS III (SOA) (Group 6 Option)****Grade 11****1 Weighted Credit*****Prerequisite: Advanced Theatre Arts II***

(Refer to Theatre Arts III under School of the Arts, Grade 11, for course description.) Students are required to complete IB internal and external assessments to obtain credit for this course.

**GRADE 12****IB 1160 IB STUDIES IN LANGUAGE AND LITERATURE-English (HL)****Grade 12****1 Weighted Credit*****Prerequisite: IB 1150 IB Language A1 – English (HL)***

(Refer to IB Language A1 (English) HL under Grade 11 for course description.)

**IB 2361 IB 20<sup>th</sup> CENTURYWORLD HISTORY (HL)****Grade 12****1 Weighted Credit*****Prerequisite: IB 2360 IB 20th Century World History HL***

(Refer to 20<sup>th</sup> Century World History HL under Grade 11 for course description.)

**IB 2210 IB GEOGRAPHY (SL)****Grade 11 or 12**

**1 Credit**

**Prerequisite:** Admission to IB Diploma Programme or Teacher Recommendation (Refer to IB Geography SL under Grade 11 for course description.)

**IB 31702 IB MATHEMATICS (HL)**

**Grade 12**

**1 Weighted Credit**

**Prerequisite:** IB 31701 IB Mathematics (HL)

(Refer to IB Mathematics HL under Grade 11 for course description.)

**OR**

**IB 31952 IB MATHEMATICS (SL)**

**Grade 12**

**1 Weighted Credit**

**Prerequisite:** IB 31951 IB Mathematics (SL)

(Refer to IB Mathematics SL under Grade 11 for course description.)

**OR**

**IB 31961 IB MATHEMATICAL STUDIES (SL)**

**Grade 11 or 12**

**1 Credit**

**Prerequisite:** IB 31951 IB Mathematics (SL) or Algebra II

(Refer to IB Mathematical Studies SL under Grade 11 for course description.)

**IB 4390 IB BIOLOGY (HL)**

**Grade 12**

**1 Weighted Credit**

**Prerequisite:** IB 4380 IB Biology (HL)

(Refer to IB Biology HL under Grade 11 for course description.)

**OR**

**IB 45802 IB PHYSICS (SL)**

**Grade 12**

**1 Weighted Credit**

**Prerequisite:** IB 45801 IB Physics (SL)

(Refer to IB Physics SL under Grade 11 for course description.)

**OR**

**IB 45902 IB PHYSICS (HL)**

**Grade 12**

**1 Weighted Credit**

**Prerequisite:** IB 45901 IB Physics (HL)

(Refer to IB Physics HL under Grade 11 for course description.)

**IB 5162 IB LANGUAGE B-FRENCH (SL)**

**Grade 12**

**1 Weighted Credit**

**Prerequisite:** IB 5142 IB Language B –French (SL)

(Refer to IB Language B-French SL under Grade 11 for course description.)

**OR**

**IB 5562 IB LANGUAGE B – SPANISH (SL)**

**Grade 12**

**1 Weighted Credit**

**Prerequisite:** IB 5542 IB language B – Spanish (SL)

(Refer to IB Language B-Spanish SL under Grade 11 for course description.)

**IB 1197 IB THEORY OF KNOWLEDGE (TOK)**

**Grade 11 or 12**

**1 Weighted Credit**

**Prerequisite:** Admission to IB Diploma Programme or Teacher Recommendation

(Refer to Theory of Knowledge (TOK) under Grade 11 for course description.)

**IB 144013 IB THEATRE ARTS IV (SOA) (Group 6 Option)**

**Grade 12**

**1 Weighted Credit (SOA)**

**Prerequisite:** Advanced Theatre Arts III

(Refer to Theatre Arts IV under School of the Arts, Grade 11, for course description.)

Students are required to complete IB internal and external assessment to obtain credit for this course.

## Pre-Diploma & International Baccalaureate Programme

Grade 9	Grade 10	Grade 11	Grade 12
* Advanced English 9	* Advanced English 10	* IB Language A1-English (SL)	* IB Language A1-English (SL)
* Advanced Placement World History	* Advanced Placement United States Government	* IB 20 <sup>th</sup> Century World History (HL)	* IB 20 <sup>th</sup> Century World History (HL)
*Advanced Geometry or ***Algebra II/Trigonometry	***Algebra II/Trigonometry or *Math Analysis	* IB Mathematics (HL) or * IB Mathematics (SL)	* IB Mathematics (HL) or * IB Mathematics (SL)
Biology I	Chemistry I	* IB Biology (HL) or * IB Physics (SL) or * IB Physics (HL)	* IB Biology (HL) or * IB Physics (SL) or * IB Physics (HL)
French II or French III or Spanish II or Spanish III	French III or * French IV or Spanish III or * Spanish IV	* IB Language B-French (SL) or * IB Language B-Spanish (SL)	* IB Language B-French (SL) or * IB Language B-Spanish (SL)
Health/Physical Education 9	Health/Physical Education 10	IB Geography (SL) (Grade 11 or 12) or *IB Theatre (HL)	IB Geography (SL) (Grade 11 or 12) or *IB Theatre (HL)
Personal Finance / Economics	Elective	* Theory of Knowledge (Grade 11 or 12)	*Theory of Knowledge (Grade 11 or 12)
		Elective/s (possible option)	Elective/s (possible option)

\* = Weighted Course

## International Baccalaureate Middle Years Programme

Yorktown Middle School (YMS) is authorized by the International Baccalaureate Organization (IBO) as an IB World School. As such, YMS offers the Middle Years Programme (MYP) to York County School Division students. Beginning with the 2012-2013 school year, all sixth grade students zoned for YMS will be enrolled in the MYP for the duration of the years they study at YMS. Academically talented YCSD students not zoned for Yorktown Middle School may apply for placement in the Middle Years Programme and enrollment at Yorktown Middle School.

All MYP courses are taught by instructors trained in MYP instruction at workshops and on-line training sessions conducted by the International Baccalaureate Organization (IBO) and/or York County School Division staff. The courses are designed to develop strong writing and critical thinking skills and to promote international-mindedness and responsible citizenship. Through five Areas of Interaction (approaches to learning, community and service, human ingenuity, environments, and health and social education) students focus on connections among the disciplines and between subject content and the real world.

The Middle Years Programme provides students with a thematic approach to learning through interdisciplinary units of study in core and elective courses. Students take courses in eight MYP subject groups: Language A (English), Humanities (social studies), Mathematics, Sciences, Physical Education, Language B (Spanish or French), Arts, and Technology. Learning in certain subject groups, including Technology, is integrated across the curriculum. Students complete the MYP with an individual culminating project. Additionally, students accepted into the MYP are expected to engage in community service activities during each year in which they are enrolled in the Programme.

**NOTE:** As all rising sixth grade students enrolling at Yorktown Middle School are MYP students, there is no specific course designation for their core and elective courses, with the exception of MYP Introduction to Chorus, MYP Exploratory French and MYP Exploratory Spanish.

All YMS 6<sup>th</sup> graders will be enrolled in the following courses, each of which is described in its particular content section in the Program of Studies:

- English 6 or Advanced English 6
- Foundations of Algebra or Foundations of Algebra, Part I
- Science 6
- United States History to 1865
- Physical Education/Lifetime Fitness 6.

Additionally all YMS 6<sup>th</sup> graders will be enrolled in their choice of one of two Encore options:

- Option One: Beginning Band 6, a year-long performing arts course
- Option Two: The MYP Wheel, composed of one quarter each of:
  - MYP Exploratory French or MYP Exploratory Spanish (student-selected)
  - Digital Literacy
  - Academic Seminar
  - MYP Introduction to Chorus or Exploratory Art 6.

Rising sixth grade students not zoned for Yorktown Middle School but who are interested in the MYP may apply for this program. All students participating in the Middle Years Programme will be enrolled at Yorktown Middle School (YMS). For additional information on the MYP, contact the IB Coordinator at 890-5014.

**9269M MYP INTRODUCTION TO CHORUS**

**Grade 6**  
**Semester**

Sixth grade 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.

**9230M MYP BEGINNING BAND 6**

**Grade 6**  
**Year**

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

**9103M MYP EXPLORATORY ART 6**

**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.

**5104 MYP EXPLORATORY FRENCH**

**Grade 6**  
**Quarter**

This course provides an introduction to reading, writing, and speaking the French language. An introduction to a variety of French-speaking cultures is also given.



**5504 MYP EXPLORATORY SPANISH**

**Grade 6**  
**Quarter**

This course provides an introduction to reading, writing, and speaking the Spanish language. An introduction to a variety of Spanish-speaking cultures is also given.



**1110M MYP ENGLISH 7**

**Grade 7**  
**Year**

Building on MYP English 6, this course provides interdisciplinary, literature-based opportunities for students to enhance the skills needed for successful academic performance in later advanced English classes. Emphasis is placed on a variety of literature, composition, vocabulary development, spelling, listening, speaking, and critical thinking skills within the context of interdisciplinary connections. Summer assignments are required.

**2357M MYP US HISTORY II 1877 TO THE PRESENT**

**Grade 7**  
**Year**

This course is a study of the structure of government at the local, state, and federal levels. Emphasis is placed on examining the American constitutional government through historical documents, economics systems, and the roles of citizens.

**31301M MYP ALGEBRA 7**

**31302M Grade 7**  
**Year**

This course is designed to strengthen students' skills in problem solving and mathematical concepts. This course addresses the math Standards of Learning in the areas of number sense, computation, estimation, measurement, geometry, probability, statistics, patterns, functions, and algebra.

**4115M MYP /LIFE SCIENCE 7**

**Grade 7**  
**Year**

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

**7121M MYP PHYSICAL EDUCATION/LIFETIME FITNESS 7**

**Grade 7**  
**Year**

This course incorporates activities designed to develop lifetime physical fitness and conditioning through participation in selected team and individual activities related to interdisciplinary courses of study. Emphasis is on safety issues related to sports and recreation, as well as personal and social development.

**5110M MYP FRENCH I**

**Grade 7**  
**Year**

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students learn basic listening, speaking, reading, and writing. Emphasis is on the ability to communicate orally and in writing in various social and academic settings. This course meets the first MYP Language B requirement.

**5210M MYP SPANISH I**

**Grade 7**  
**Year**

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students learn basic listening, speaking, reading, and writing. Emphasis is on the ability to communicate orally and in writing in various social and academic settings. This course meets the MYP Language B requirement.

**9105M MYP ART A**

**Grade 7**  
**Semester**

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

**91061M MYP ART B**

**Grade 7**  
**Semester**

In this course, students study the principles and elements of design and participate in interdisciplinary activities designed to develop skills in drawing and painting.

**92707M MYP CHORUS A**

**Grade 7**  
**Semester**

This course features 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 purposes.

**92708M MYP CHORUS B**

**Grade 7**  
**Year**

This course features 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 purposes.

**8232M MYP BEGINNING BAND 7**

**Grade 7**  
**Year**

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

**9233M MYP INTERMEDIATE BAND 7**

**Grade 7**  
**Year**

**Prerequisite: Audition or one year of instrumental music experience.**

This course provides the opportunity for students to continue to develop their instrumental music skills and to explore its interdisciplinary implications.

**1120M MYP ENGLISH 8**

**Grade 8**  
**Year**

This interdisciplinary course builds upon MYP English 6 and 7, in addition to providing an opportunity for students to enhance the skills needed for successful academic performance in later advanced English classes. Emphasis is placed on cultural uses of language, composition, literature, vocabulary development, spelling, listening, and speaking skills. Summer assignments are required.

**2357M MYP CIVICS AND ECONOMICS**

**Grade 8**

**Year**

This course focuses on gaining essential knowledge of the U.S. and Virginia constitutions and the structure and functions of government institutions at the state and local levels. Students also learn the basic principles, structure, and operation of the American economy.

**31433M MYP ADVANCED GEOMETRY**

**Grades 8**

**Year /1 weighted credit**

The content of this course offers an intense 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. Two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models are emphasized. Advanced Geometry provides the foundation for students to pursue a sequence of advanced mathematical studies from Algebra II/Trigonometry to Mathematical Analysis to Advanced Placement Calculus.

**4125M MYP/PHYSICAL SCIENCE 8**

**Grade 8**

**Year**

This introductory course to physics and chemistry explores concepts such as motion, light, sound, energy, and matter, encouraging students to connect their learning to the world around them. Hands-on laboratory experiences are emphasized.

**7210M MYP PHYSICAL EDUCATION/LIFETIME FITNESS 8**

**Grade 8**

**Year**

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

**5120M MYP FRENCH II**

**Grade 8**

**Year/1 Credit**

**Prerequisite: French Level I**

Students continue to develop proficiency in their chosen language skills-listening, speaking, reading, and writing-with emphasis on the ability to communicate orally and in writing in the World Language with minimal use of English in the classroom. 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. Students also explore the connections and importance of language to all areas of the curriculum. This course meets the MYP Language B requirement.

**5520M MYP SPANISH II**

**Grade 8**

**Year/1 Credit**

**Prerequisite: Spanish Level I**

Students continue to develop proficiency in their chosen language skills-listening, speaking, reading, and writing-with emphasis on the ability to communicate orally and in writing in the World Language with minimal use of English in the classroom. 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. Students also explore the connections and importance of language to all areas of the curriculum. This course meets the MYP Language B requirement.

**9234M MYP ADVANCED BAND**

**Grades 7-8**

**Year**

**Prerequisite: Audition or one year of instrumental music experience**

This course provides the opportunity for students to refine their instrumental music skills and explore the connections between music and other disciplines.

**8464M MYP TECHNOLOGY: INVENTIONS & INNOVATIONS**

**Grades 7-8**

**Semester**

The focus of this course is invention and innovation technology through the design cycle. Students study tools and machines, power and energy, transportation, and communication. Students apply skills with individual creativity to create models and inventions.

### **8403M MYP TECHNOLOGY: TECHNOLOGICAL SYSTEMS**

**Grades 7-8  
Semester**

Students utilize hands-on activities to follow the design cycle, further developing an understanding of 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.

## **SCHOOL OF THE ARTS**

The York County School of the Arts (SOA) provides high school students with an enriched and challenging fine arts educational opportunity. SOA programs emphasize academic growth and artistic development, the multidisciplinary nature of the arts, standards to differentiate between the meaningful and the mediocre in the arts, and fine arts career opportunities. SOA is located at Bruton High School and is open to all students in grades 9-12 in the York County School Division who maintain a GPA of 2.5 or higher. Transportation from York County high schools to SOA is provided for students. Students are accepted into the SOA program from other school divisions on a tuition basis. Admission to SOA is by application/audition (requires two 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 may be obtained from the SOA Coordinator (220-4095).

**School of the Arts Courses:** Advanced Literary Arts I-IV<sup>1</sup>, Advanced Literary Arts Writing Practicum<sup>1</sup>, Advanced Theatre Arts I - IV<sup>1</sup>, Advanced Theatre Arts II – IV with Practicum<sup>1</sup>, Advanced Technical Theatre I - IV<sup>1</sup> Advanced Technical Theatre II-IV with Practicum<sup>1</sup>, Rhythmic Arts I Rhythmic Arts II. Rhythmic Arts III, Rhythmic Arts IV

<sup>1</sup> Indicates weighted course.

### **ADVANCED LITERARY ARTS I**

**Grades 9-11**

**Prerequisite: Application & Audition**

**117710 ADVANCED ENGLISH 9**

**1 Weighted Credit**

**117712 ADVANCED ENGLISH 10**

**1 Weighted Credit**

**117714 ADVANCED ENGLISH 11**

**1 Weighted Credit**

**117711 ADVANCED ARTS LINK 9**

**Fine Arts Elective**

**1 Weighted Credit**

**117713 ADVANCED ARTS LINK 10**

**Fine Arts Elective**

**1 Weighted Credit**

**117715 ADVANCED ARTS LINK 11**

**Fine Arts Elective**

**1 Weighted Credit**

These interdisciplinary courses are explorations of the basic elements of the fine and literary arts with an emphasis on the relationship among the arts and the development of standards to differentiate between the meaningful and the mundane in the arts. They also include an analysis of 19<sup>th</sup> – 21<sup>st</sup> century literature with emphasis on literary devices and techniques and the elements of character, setting, and theme. Students are involved in a study of skills, techniques, and models for writing fiction and nonfiction, and for gathering information through primary and secondary sources to include the use of electronic databases. Students plan and present individual and group presentations integrating art and literature and use collaborative strategies to evaluate various genres in literature to include essays, short stories, novels, drama, and poetry. The courses help prepare students for the English Advanced Placement Exam.

### **ADVANCED LITERARY ARTS II**

**Grades 10-12**

**Prerequisite: Advanced Literary Arts I**

**117720 ADVANCED ENGLISH 10**

**1 Weighted Credit**

**117721 ADVANCED WRITER WORKSHOP 10**

**1 Weighted Credit**

**117721 ADVANCED WRITER WORKSHOP 10**

**1 Weighted Credit**

**117724 ADVANCED ENGLISH 12**

**1 Weighted Credit**

**117722 ADVANCED ENGLISH 11-12**

**1 Weighted Credit**

**117725 ADVANCEDWRITER WORKSHOP**

**1 Weighted Credit**

These interdisciplinary courses are designed for students with demonstrated interest and talent in writing, literature, and other fine arts. Literature serves as the basis and/or model for student writing and oral presentations. Included is an analysis of literature with emphasis on devices, techniques, and the elements of character, setting, theme, point of view, tone, and dialogue. These courses are based on thematic units focusing on literature evolving from the oral tradition, featuring the role of women in the fine arts, examining the questions of innate evil, and discussing misfits within society. Using collaborative learning strategies, students are involved in a study of skills, techniques, and models for writing poetry, drama, fiction, and nonfiction, and for gathering information through available technology. Students produce original writings from the categories of notation, recollection, investigation, imagination, and cogitation. Students also examine printed consumer material for audience, clarity of writing, and document design. The primary emphasis of the interdisciplinary writing is to develop an understanding of archetypal patterns, parallels of the elements within the arts, and socioeconomic factors affecting the arts of particular historical periods. The courses help prepare students for the English Advanced Placement Exam.

**ADVANCED LITERARY ARTS III**

**Grades 11-12**

**Prerequisite: Advanced Literary Arts II**

**117730 ADVANCED ENGLISH 11**

**1 Weighted Credit**

**117731 ADVANCED WRITER WORKSHOP 11**

**Fine Arts Elective**

**1 Weighted Credit**

**117732 ADVANCED ENGLISH 12**

**1 Weighted Credit**

**117733 ADVANCED WRITER WORKSHOP 12**

**Fine Arts Elective**

**1 Weighted Credit**

These interdisciplinary courses are designed for students with demonstrated interest and talent in writing, literature, and other fine arts. The courses focus on philosophies ranging from Socratism to existentialism and the literature reflecting these ideas. The impact of the questioning of traditional beliefs and the experimentation in artistic expression within the fine arts are emphasized. Students examine these philosophic ideas and stylistic techniques as revealed in the communication and/or the arts of prehistoric cultures through post-modernism. This study provides models from the categories of notation, recollection, investigation, imagination, and cogitation. Writings emphasize the changing nature of language and utilize literary devices and techniques that reflect the course of study. Students are involved in a study of skills, techniques, and samples focusing on the elements and conventions for writing fiction and nonfiction. Investigative skills are emphasized for gathering information through primary and secondary sources including the use of electronic databases. These courses help prepare students for the English Advanced Placement Exam.

**ADVANCED LITERARY ARTS IV**

**Grade 12**

**Prerequisite: Advanced Literary Arts III**

**117740 ADVANCED ENGLISH 12**

**1 Weighted Credit**

**117741 ADVANCED WRITER WORKSHOP 12**

**Fine Arts Elective**

**1 Weighted Credit**

These interdisciplinary courses are designed for advanced students with demonstrated skills in writing and the analysis of literature and the related arts. The courses focus on the study of world cultures through an investigation of literature and art. Within an historical framework, students identify the interrelationships of problems concerning contemporary society and broaden their global perspective of cultures by studying the manner in which literature, philosophy, visual arts, and music reflect cultural value systems. Students make formal oral presentations using visual aids and available technology. Students also examine the philosophical ideas and stylistic techniques of Nobel Prize winners in literature as a basis for the continuing development of skills and techniques for writing and analyzing poetry, fiction, and nonfiction. Emphasis is placed on investigative skills using technology, and on primary and secondary sources for gathering and synthesizing information. Students examine and revise a variety of technical writing for audience, purpose, clarity, and format. These courses help prepare students for the English Advanced Placement Exam.

**117742 ADVANCED LITERARY ARTS WRITING PRACTICUM**

**Grade 12**

**2 Weighted Credits**

**Prerequisite: Application**

This course focuses on the practical application of writing theory and process through specialized field experiences and/or community service in the area of written communication. Credit toward fulfilling course requirements may also be awarded for interdisciplinary, arts-related field experiences under instructor supervision. After school, supervised hours are required. Students must maintain a passing grade in all courses to remain in this program.

**144010 ADVANCED THEATRE ARTS I****Grades 9-11****Fine Arts Elective****1 Weighted Credit*****Prerequisite: Application & Audition***

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.

**144011 ADVANCED THEATRE ARTS II****Grades 10-11****Fine Arts Elective****1 Weighted Credit*****Prerequisite: Advanced Theatre Arts I***

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.

**144012 ADVANCED THEATRE ARTS III****Grades 11-12****Fine Arts Elective****1 Weighted Credit*****Prerequisite: Advanced Theatre Arts II***

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.

**144013 ADVANCED THEATRE ARTS IV****Grade 12****Fine Arts Elective****1 Weighted Credit*****Prerequisite: Advanced Theatre Arts III***

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.

**144014 ADVANCED THEATRE ARTS II WITH PRACTICUM****Grades 10-12****Fine Arts Elective****2 Weighted Credits*****Prerequisite: Open to students in grades 10-12 who are enrolled in the second year SOA theatre course.*****144015 ADVANCED THEATRE ARTS III WITH PRACTICUM****Grades 11-12****Fine Arts Elective****2 Weighted Credits*****Prerequisite: Open to students in grades 10-12 who are enrolled in the third year SOA theatre course.*****144016 ADVANCED THEATRE ARTS IV WITH PRACTICUM****Grade 12****Fine Arts Elective****2 Weighted Credits*****Prerequisite: Open to students in grades 10-12 who are enrolled in the fourth year SOA theatre course.***

This course focuses on practical application of curriculum theory and process through acting projects in the lab theatre. Historical analysis is used as an interdisciplinary focus to produce works-in-progress. Credit toward fulfilling course requirements may be awarded for participation in a minimum of one main-stage production (crew or performer), for arts-related field experiences with instructor approval, and for satisfactorily completing analysis assignments. After school, supervised hours are required. Students must maintain a passing grade in all courses to remain in this program as well as to remain in each performance.

**14354 ADVANCED TECHNICAL THEATRE I****Grades 9–12****Fine Arts Elective****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.

**1435 ADVANCED TECHNICAL THEATRE II - IV**

**Grades 10-12**  
**Fine Arts Elective**  
**1 Weighted Credit**

**Prerequisite: 14254 Advanced Technical Theatre**

This course is designed for students interested in backstage work and focuses on training students to be theatre technicians and introduces them to basic elements of design. The course provides opportunities for working as technicians in a lab theatre on sets, lighting, sound, and props. Content includes the basic principles of set, lighting, sound, and prop design followed by the applied work. The course also includes reading plays, exploring the 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 theatrical team. Experience in backstage work is helpful but not necessary. 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)

**14355 ADVANCED TECHNICAL THEATRE II –IV WITH PRACTICUM**

**Grades 10–12**  
**Fine Arts Elective**  
**2 Weighted Credits**

**Prerequisite: 14264 Advanced Technical Theatre**

This course is designed for students interested in backstage work and focuses on training students to be theatre technicians and introduces them to basic elements of design. The course provides opportunities for working as technicians in a lab theatre on sets, lighting, sound, and props. Content includes the basic principles of set, lighting, sound, and prop design followed by the applied work. The course also includes reading plays, exploring the 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 theatrical team. Experience in backstage work is helpful but not necessary. After school supervised hours are required. Students must participate on multiple show crews throughout the year. Students must maintain a passing grade in ALL courses to remain in this program as well as to remain in each performance. (May be continued with instructor recommendation and a minimum GPA of 2.5)



**9311 RHYTHMIC ARTS I**

**Grades 9-12**  
**Fine Arts Elective or one physical education credit**  
**1 Credit**

**Prerequisite: Application & Audition**

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.

**9313 RHYTHMIC ARTS II**

**Grades 10-12**  
**Fine Arts Elective or one physical education credit**  
**1 Credit**

**Prerequisite: Rhythmic Arts I**

This dance course is a natural progression from Rhythmic 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.

**9316 RHYTHMIC ARTS III**

**Grades 11-12**  
**1 Credit**

**Prerequisite: Rhythmic Arts II**

This dance course is a natural progression from Rhythmic 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.



**93151 RHYTHMIC ARTS IV**

**Grade 12**  
**1 Credit**

**Prerequisite: Rhythmic Arts III**

This dance course is a natural progression from Rhythmic Arts III. 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.



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.

### **LITERARY ARTS TRACK**

<b>Class Period</b>	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
<b>1<sup>st</sup> Period</b>	Advanced Literary Arts Level I	Advanced Literary Arts Level II	Home School Class	Home School Class
<b>2<sup>nd</sup> Period</b>	Advanced Literary Arts Art Link	Advanced Literary Arts Writer's Workshop	Home School Class	Home School Class
<b>3<sup>rd</sup> Period</b>	Home School Class	Home School Class	Home School Class	Home School Class
<b>4<sup>th</sup> Period</b>	Home School Class	Home School Class	Home School Class	Home School Class
<b>5<sup>th</sup> Period</b>	Home School Class	Advanced Literary Arts Level II	Advanced Literary Arts Level III	Advanced Literary Arts Level IV
<b>6<sup>th</sup> Period</b>	Home School Class	Advanced Literary Arts Writer's Workshop	Advanced Literary Arts III Writer's Workshop	Advanced Literary Arts IV Writer's Workshop
<b>7<sup>th</sup> Period</b>	Home School Class	Home School Class	Home School Class	Home School Class
<b>Additional Course</b>	Not Available	Not Available	Not Available	Advanced Literary Arts Writing Practicum (Optional)

Students taking Literary Arts will take all of the classes listed. [Advanced Literary Arts Level II is offered in either the morning or the afternoon. All other classes are only offered at the times listed.]

### **RHYTHMIC ARTS AND THEATRE ARTS TRACK**

Students may enroll in both the Rhythmic Arts and the Theatre Arts classes. Additionally, students may take Advanced Technical Theatre in combination with any of the other classes that are not offered during conflicting periods.

<b>Class Period</b>	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
<b>1<sup>st</sup> Period 1A</b>	Advanced Theatre Arts Level I or Rhythmic Arts Level I	Advanced Technical Theatre Level II-IV	Advanced Technical Theatre Level II-IV	Advanced Technical Theatre Level II-IV
<b>2<sup>nd</sup> Period 1B</b>	Advanced Theatre Arts Level I or Rhythmic Arts Level I or Advanced Technical Theatre Level I	Advanced Theatre Arts Level I or Advanced Technical Theatre Level I or Advanced Theatre Arts Level II	Home School Class or Advanced Technical Theatre Level I	Home School Class or Advanced Technical Theatre Level I
<b>3<sup>rd</sup> Period</b>	Home School Class	Home School Class	Home School Class	Home School Class
<b>4<sup>th</sup> Period</b>	Home School Class	Home School Class	Home School Class	Home School Class
<b>5<sup>th</sup> Period 4A</b>	Home School Class	Advanced Technical Theatre Levels II - IV	Advanced Theatre Arts III or advanced Technical Theatre Levels II - IV	Advanced Technical Theatre Levels II - IV
<b>6<sup>th</sup> Period 4B</b>	Home School Class or Advanced Technical Theatre Level I	Advanced Theatre Arts Level II or Rhythmic Arts Level II - IV or Advanced Technical Theatre Level I	Rhythmic Arts Level II-IV or Advanced Technical Theatre Level I	Advanced Theatre Arts IV or Rhythmic Arts Level II - IV or Advanced Technical Theatre Level I
<b>7<sup>th</sup> Period</b>	Home School Class	Home School Class	Home School Class	Home School Class
<b>Additional Course</b>	Not Available	Advanced Theatre Arts Practicum	Advanced Theatre Arts Practicum	Advanced Theatre Arts Practicum

## **MIDDLE SCHOOL ARTS MAGNET**

*NOTE: Only middle school students accepted into the Middle School Arts Magnet may enroll in the courses listed below.*

The Middle School Arts Magnet provides students in grades 6-8 with a creative and challenging arts experience. Interested middle school students may apply for this program that is located at Queens Lake Middle School. Literary Arts, Theatre Arts, and Rhythmic Arts courses are delivered at SOA at Bruton High School; students complete the remaining CORE and elective middle school courses at QLMS. All students participating in the Middle School Arts Magnet are enrolled at QLMS. For additional information on the Middle School Arts Magnet, contact the QLMS Principal (220-4083).

**11092 LITERARY ARTS 6**

**Grade 6**

**Year**

This interdisciplinary course is designed for students with a demonstrated interest in writing, literature, and the related arts. Structured to enhance the skills needed for successful academic performance in subsequent English and fine arts classes, this course emphasizes literature, composition, vocabulary development, communication, and critical thinking skills. Students receive an in-depth introduction to various genres of literature and the fine arts. This course replaces English 6 or Advanced English 6 for students enrolled in the Middle School Arts Magnet.

**11103 LITERARY ARTS 7**

**Grade 7**

**Year**

This course expands student exploration of literature, writing, and language skills in a creative and challenging interdisciplinary environment that brings together literature and the fine arts. Students experience literature-based opportunities to enhance the skills needed for successful academic performance in subsequent English or fine arts classes. Both as readers and creators, students extend their expressive talents beyond the ordinary. Writing and critical thinking are major components of this course that replaces English 7 or Advanced English 7 for students enrolled in the Middle School Arts Magnet.

**11204 LITERARY ARTS 8**

**Grade 8**

**Year**

This interdisciplinary course provides in-depth exploration of literature, writing, and language skills in a creative and challenging environment that incorporates the fine arts. Students experience literature-based opportunities to enhance the skills needed for successful academic performance in subsequent English or fine arts courses. Composition, literature, vocabulary development, communication, and critical thinking are major components of this course that replaces English 8 or Advanced English 8 for students enrolled in the Middle School Arts Magnet.

**13902 THEATRE ARTS 6**

**Grade 6**

**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.

**13903 THEATRE ARTS 7**

**Grade 7**

**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.

**13904 THEATRE ARTS 8**

**Grade 8**

**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.

**93022 RHYTHMIC ARTS 6**

**Grade 6**

**Year**

This introductory rhythmic 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 cardio-respiratory 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 rhythmic arts. This course replaces Physical Education/Lifetime Fitness 6 for students enrolled in the Middle School Arts Magnet.

**93023 RHYTHMIC ARTS 7**

**Grade 7**

**Year**

This rhythmic arts course expands exploration of dance in its many forms and provides students with exposure to the diversity of the rhythmic arts. Content focuses on the concepts of fitness and wellness, utilizing dance as a cardio-respiratory 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 the Middle School Arts Magnet.

**93024 RHYTHMIC ARTS 8**  
**Grade 8**  
**Year**

This rhythmic arts course continues to provide in-depth study of dance in its many forms and expands students' exposure to the diversity of the rhythmic arts. Content focuses on the concepts of fitness and wellness utilizing dance as a cardio-respiratory 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 the Middle School Arts Magnet.

## NEW HORIZONS CAREER AND TECHNICAL EDUCATION CENTER

Students in the York County School Division who have completed applicable prerequisites are eligible to apply to take courses offered through the New Horizons Career and Technical Center. Approval for YCSD students to enroll in New Horizons courses is granted by the York County School Division. Grade levels at which YCSD students may consider taking these courses are included with the description of each course. Middle school students are not eligible to take New Horizons courses for high school credit. NOTE: Fees may be required for some Career/Technical course offerings. Student-selected verified credit may be earned for some Career/Technical course offerings.

### CAREER CLUSTER: AUTOMOTIVE TECHNOLOGY

**8675 AUTO BODY PREP**  
**Grades 11 or 12**  
**3 credits**

**Prerequisite:** Eye-hand coordination, manual dexterity, physical strength & stamina, good color differentiation.

**Location:** Butler Farm/Woodside Lane (PM Only)

This one-year course is a one-year program designed for students who are interested in collision repair but are unable to meet the requirements of the Auto Body program. Students learn the very basics of the collision repair industry to include repairing a dent, welding, sanding, repairing plastic and fiberglass, using a primer and paint gun, mixing paint and pin striping. Each student entering this program will be required to purchase an auto body kit that will contain a respirator as well as other related auto body tools. Students will be required to keep work-related clothes at school. This course is not recommended for individuals with respiratory or allergy problems.

**8676 AUTO BODY REPAIR I & II**  
**8677 Grades 11-12**  
**3 Credits**

**Prerequisite:** Eye-hand coordination, manual dexterity, physical strength and stamina, and minimum 8<sup>th</sup> grade

**Reading/Math levels**

**Location:** Butler Farm/Woodside Lane

This two-year program prepares students to repair motor vehicle bodies. Instruction includes chassis alignment and reconstruction of components. These two year-long courses may be taken for either a one-year or two-year program. The second year course deals with advanced techniques in auto body technology, or students may elect to take Auto Painter during the second year. NOTE: Each student pays for an auto body repair kit. This course is not recommended for individuals with respiratory or allergy problems.

**8710 AUTO MAINTENANCE**  
**8711 Grades 11 or 12**  
**3 Credits**

**Prerequisite:** Eye-hand coordination, manual dexterity, and physical strength and stamina

**Location:** Butler Farm

This course will address basic auto maintenance including oil changes, tire repair and tune ups. This course will introduce students to mechanical principals transferable to other career areas in post-secondary options. Students will take the NA3SA Credentialing Test. Employment opportunities exist in the auto tire and service facilities such as Wal-Mart, Costco, Merchants, Firestone, Jiffy Lube, etc.

**8506 AUTO TECHNOLOGY I & II**  
**8507 Grades 11-12**  
**3 Credits**

**Prerequisite:** Eye-hand coordination, manual dexterity, physical strength and stamina, and minimum 10<sup>th</sup> grade reading level with successful completion of Algebra I



**Location: Butler Farm**

This is a two-year program that prepares students to become entry-level auto technicians. In the first year, students study automotive systems and their operation, perform routine maintenance, and replace selected auto parts. The student has the opportunity to apply for a summer Mentorship Program sponsored by participating auto dealers. The curriculum includes: shop safety tools, service manuals and publications, automotive engine theory, service and operation, basic electrical theory and operation, suspension and driver train component operations and repair, and heating/air conditioning and emissions control systems. In the second year, students study automotive electrical/electronic systems intensively and learn to diagnose and correct malfunctions related to drivability and engine performance. This program offers dual enrollment college credit through Thomas Nelson Community College in Auto Technology II.

**CAREER CLUSTER: CONSTRUCTION TECHNOLOGY**

**8601 CARPENTRY I & II**

**8602 Grades 11-12**

**3 Credits**

***Prerequisite:* Ability to read a ruler to 1/16 increments, basic math skills using fractions & decimals, eye-hand coordination, a willingness to work outside in varying weather conditions, and minimum 8<sup>th</sup> grade reading level.**

**Location: Woodside Lane**

This two-year program provides an opportunity to obtain entry-level job skills in residential and commercial construction. Over the two-year course, students are exposed to all aspects of residential construction. Upon graduation, students may pursue a career in carpentry or carpenter's helper. Spin-off careers such as siding, roofing, insulation, dry wall installers, dry wall finishers, and entry-level cabinet makers are other areas open to carpentry graduates. Students are required to demonstrate competency in areas such as use of hand and power tools, blueprint reading, building materials, foundation layout, rough framing, roof framing, exterior finishing, interior finishing, stair construction, and simple cabinet construction.

**8600 BASIC CARPENTRY**

**Grades 11 or 12**

**3 Credits**

**Location: Woodside Lane**

This is a one-year program that may be repeated for a second year with the instructor's recommendation. It is available to certain students based upon a recommendation from a vocational evaluation. Instruction focuses on hands-on and auditory learners. Students should be able to lift and carry 25 pounds for a distance of 40 feet, have manual and finger dexterity, and be able to understand safety requirements for use of power equipment and tools. The program provides instruction in the following areas: carpenter's helper, basic carpentry, roofing, siding installation, basic masonry, employability skills, job-seeking skills, and job-keeping skills. Upon successful completion of this program, students may move into employment in construction trades, job coach in a related setting, work experience, or other secondary or post secondary instruction related to construction.

**8503 HEATING/VENTILATION/AIRCONDITIONING (HVAC MECHANICAL) I & II**

**8504 Grades 11-12**

**3 Credits**

***Prerequisite:* Mechanical aptitude, manual dexterity, knowledge of basic mathematics, ability to learn use of blueprints**

**Location: Butler Farm**

This course prepares students to install, maintain, and repair air conditioning, refrigeration, and heating equipment including oil, electric, and gas.

**CAREER CLUSTER: ENGINEERING/MANUFACTURING TECHNOLOGY**

**8557 INTRODUCTION TO ELECTRONICS AND ROBOTICS**

**Grade 11**

**3 Credits**

***Prerequisite:* Completion of Algebra I with a minimum grade of B or above**

**Location: Butler Farm**

This one-year course prepares students in basic electricity, electron theory, direct current fundamentals, alternating current fundamentals, basic electronics, and troubleshooting techniques. It also emphasizes integrated circuits, digital fundamentals, and digital applications. Students will be given an introduction to the application of electronics in the field of robotics. They will be introduced to basic computer programming, motor control, and feedback systems used in robotic assembly and in manufacturing settings. Students will also be given an opportunity to participate on the New Horizons Robotics Team, which has competed in international competitions. In order to meet the two-year completer sequence requirement, students must complete this course as well as the **Advanced Robotics and Fiber Optics** course (8558) in their senior year. The introduction to electronics / robotics course also satisfies one of the requirements for the Governor's Academy for Innovation, Technology and Engineering (GAITE).

**8558 ADVANCED ROBOTICS AND FIBER OPTICS****Grade 12****3 credits****Prerequisite: Completion of Introduction to Electronics/Robotics at New Horizons or another electronics course with a minimum grade of B.**

This one-year course provides instruction in computer programming, motor control, and feedback systems used in robotic assembly and manufacturing settings. In addition, students program a microcontroller for robotic manipulation and focus on the application of fiber optics. Students will also be given an opportunity to participate on the New Horizons Robotics Team, which has competed in international competitions. In order to obtain a two-year completer sequence, students must have completed Introduction to Robotics and Electronics in Grade 11. This course also satisfies one of the requirements for the Governor's Academy for Innovation, Technology and Engineering (GAITE)

**8539 MACHINE TECHNOLOGY****Grades 11 or 12****3 Credits****Prerequisite: Mechanical aptitude, ability to read technical manuals, knowledge of basic mathematics, attention to detail, ability to lift 50 pounds, minimum 10<sup>th</sup> grade reading level and completion of Algebra I.****Location: Butler Farm**

In this course, students learn to operate a wide variety of machine tools and equipment used to manufacture precision parts from metal. Instruction includes: bench work, layout, lathe operation and set-up, and vertical milling machine procedure. A mentorship with NASA is available for some second-year students. This program offers dual enrollment college credit through Thomas Nelson Community College.

**8540 COMPUTER NUMERICAL CONTROL (CNC) MACHINING****Grades 11 or 12****3 Credits****Prerequisite: Completion of Machine Technology with a grade of B or above or completion of Algebra II with a grade of "C" or above.**

This one year course focuses on numerical control techniques in metal forming and machine processes. It includes practice in lathe and milling machine CNC program writing, setup and operation. In order to obtain a two-year completer sequence, students must have completed Machine Technology in Grade 11. However, this is not required for the course if the student has met the Algebra II prerequisite. The course is dual enrolled through Thomas Nelson Community College and satisfies one of the course requirements for the Governor's Academy for Innovation, Technology and Engineering (GAITE).

**8672 WELDING I & II****8673 Grades 11-12****3 Credits****Prerequisite: Good mechanical aptitude; good eye-hand coordination; ability to tolerate heat, smoke & working in confined spaces; tolerance to weather; good physical condition without allergies or breathing problems.****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 groove 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.

**CAREER CLUSTER: HEALTH SCIENCES****8328 DENTAL ASSISTANT I & II****8329 Grades 11-12****3 Credits****Prerequisite: Emotional stability, manual dexterity, social adjustment, good grooming, excellent interpersonal communication skills, good physical condition, desire to work with people, ability to read & comprehend technical material at a minimum of 10<sup>th</sup> grade level. Uniforms, liability insurance, and Hepatitis-B vaccinations required for second-year students in dental office.****Location: Butler Farm**

This two-year program provides the training necessary to become an integral part of the dental profession. The course offers students supervised training as a dental assistant and the educational requirements for x-ray certification upon passing a certification exam. Additional training is provided for students to administer schedule VI topical medicinal agents, including topical fluoride and desensitizing agents.

**8345 MEDICAL ASSISTANT****8346 Grades 11-12****3 credits**

**Prerequisite:** One semester of Keyboarding applications or equivalent, minimum 10<sup>th</sup> grade reading level, and completion of Biology with a grade of C or above. Current TB skin test must be on file with New Horizons.

**Location:** Woodside Lane

This two-year program prepares students to assist physicians by performing functions related to both business administration and clinical duties of a medical office. Instruction in the business aspects includes: insurance reporting, office accounting, medical records, and medical transcription. Clinical instruction includes: preparation of the patient for examination and treatment, routine laboratory procedures, and use of the electrocardiograph machine.

**8360 NURSING ASSISTANT**

**8362 Grades 11-12**

**3 Credits**

**Prerequisite:** Desire to work with people, good physical condition, good eye-hand coordination, manual dexterity, ability to read & comprehend technical material at a 10<sup>th</sup> grade level, knowledge of basic mathematics, compliance with dress code including short fingernails, white uniform, white shoes, white hosiery & watch with a second hand

**Location:** Butler Farm

This one-year course prepares students for employment at a Nurse Aide/Home Health Aide and/or for entry into the Practical Nursing program. During the last quarter of the school year, students receive on-site training in local nursing homes and mentorship sites. Each student must provide his/her own transportation to these sites. Results of a current (good for one year) TB skin test must be on file with the New Horizons Regional Education Center not later than the end of the third quarter of the school year. This is a one-year program, and program completers are eligible to take the Virginia National Council of State Board of Nursing Incorporated Examination (Ohio Nurses Testing Service) to become a Certified Nurse Aide in the state of Virginia. Completers are also eligible to take the Foundation for Hospice and Homecare National Certification Program for Home Care Aides.

**8305 PHARMACY TECH**

**8306 Grade 11 or 12**

**3 Credits**

**Location:** Woodside Lane



The program will complement the current one-year program offerings of Medical Assistant and Nursing Assistant. The Virginia Board of Pharmacy State Exam will be used for the credential. Students would enter employment in health care facilities, hospitals, and local pharmacies.

**8088 VETERINARY SCIENCE**

**8083 Grades 11 or 12**

**3 Credits**

**Prerequisite:** Desire to work with people, good physical condition, enjoy handling and caring for animals, manual dexterity, minimum 10<sup>th</sup> grade reading level and completion of Biology with a grade of C or better.

**Location:** Woodside Lane



This 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.

**CAREER CLUSTER: HUMAN SERVICES**

**8740 BARBERING I & II**

**8741 Grades 11-12**

**3 Credits**

**Prerequisite:** Eye-hand coordination, manual dexterity, good color discrimination, ability to follow oral & written directions, minimum 10<sup>th</sup> grade reading level, and completion of English 10 and Biology with a C average.

**Location:** Woodside Lane

This two-year course prepares students for state licensing as a Barber. Instruction includes hair cutting, shaving, shampooing, scalp and hair treatment, hair styling, and shop management. NOTE: Purchase of equipment and supplies is required.

**8527 COSMETOLOGY I & II**

**8528 Grades 11-12**

**3 Credits**

**Prerequisite:** Eye-hand coordination, manual dexterity, good color discrimination, ability to follow oral & written directions, minimum 10<sup>th</sup> grade reading level, and completion of English 10 and Biology with a C average.

**Location:** Butler Farm/Woodside Lane

This two-year course prepares students for state licensing as a cosmetologist. Instruction includes manicuring, shampooing, scalp and hair treatment, hair styling, and salon management. NOTE: Purchase of equipment and supplies is required.

**8275 CULINARY ARTS I & II****8276 Grades 11-12****3 Credits**

**Prerequisite:** Good personal hygiene, adaptability, the desire to work with people, minimum 9<sup>th</sup> grade reading level, ability to comprehend & follow directions, understanding of concepts of measurement, ability to accurately perform arithmetic operations on whole, decimal & fractional numbers.

**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. This program offers dual enrollment credit through Thomas Nelson Community College.

**8285 EARLY CHILDHOOD EDUCATION I & II****8286 Grades 11-12****3 Credits**

**Prerequisite:** Genuine desire to work with young children in loving, respectful ways, ability to develop skills in keeping written records & develop written work plans, minimum of 10<sup>th</sup> grade reading level and completion of English 10 with a C\ average or above.

**Location:** Butler Farm

This is a two-year program that prepares students to be employed in the field of child care. Emphasis is placed on the development of children from birth to five years of age. A laboratory pre-school program is operated for this program. Opportunities for experience in early childhood centers are also available. **Expectations:** Students enrolled in this course are expected to work a certain number of hours in local early childhood centers during both the first and second years of the course. Students are required to have their own personal craft supplies and a Tuberculin skin test. Fee requirements for this course include: liability insurance, apron rental, HERO club fee, and a criminal background check. This program offers dual enrollment college credit through Thomas Nelson Community College.

**CAREER CLUSTER: INFORMATION TECHNOLOGY****8622 COMPUTER NETWORKING****8623 Grades 11 or 12****3 Credits**

**Prerequisite:** Completion of a computer applications course and minimum 10<sup>th</sup> grade reading level.

**Location:** Butler Farm

This one-year course provides in-depth training on personal computer hardware, configuration, operating systems usage, and diagnostics with a primary focus on PC-based network management. Each student is encouraged to take the Network Plus Certification Exam.

**CAREER CLUSTER: PUBLIC SERVICE****8702 LAW ENFORCEMENT/CRIMINAL JUSTICE****8703 Grades 11 or 12****3 Credits**

**Prerequisite:** Minimum GPA of 2.0, a genuine interest in pursuing a career in criminal justice, solid writing & communication skills, minimum 10<sup>th</sup> grade reading level.

**Location:** Butler Farm/Woodside Lane

This one-year course introduces students to careers in law enforcement, corrections, and private security. The course also establishes a good base for those students going to college or into the military. 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.

**8333 EMERGENCY MEDICAL TECHNICIAN****8334 Grades 11 or 12****3 Credits**

**Prerequisite:** At least 17 years of age, ability to communicate verbally via telephone & radio equipment, lift, carry, and balance a minimum of 125 pounds (250 with assistance), interpret written, oral & diagnostic instructions, use good judgment & remain calm, read manuals, encyclopedias & road maps, accurately discern street signs & address numbers, interview patient, family members & by-standers, document in writing all relevant information, converse with co-workers & hospital staff regarding status of patient, bend, stoop & crawl on uneven terrain, withstand varied environmental conditions, with minimum 10<sup>th</sup> grade reading/math levels.

**Location:** Butler Farm

This course prepares students to perform as emergency medical technicians. Students are prepared to determine the nature and extent of illness and injury, take vital signs, and establish priority for emergency care. Students participate in extricating patients from entrapment, use prescribed techniques and equipment, and report observations both verbally and in writing about care of patients at the scene and en route to the hospital. Program completers are eligible to take the State Certification Exam administered by the Virginia Department of Health. 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 felon is eligible for certification if within five (5) years after date of final release no additional felonies have been committed. Expenses for this course include: insurance, supplies, and exam. This program offers dual enrollment college credit through Thomas Nelson Community College.

**8705 FIRE FIGHTER I & II**

**8706 Grades 11 or 12**

**3 Credits**

**Prerequisite:** At least 16 years of age on first day of class, completion of physical exam using a New Horizons form, and minimum 10<sup>th</sup> grade reading level.

**Location:** Butler Farm

Firefighters are one of the three public safety divisions (EMS, fire & law enforcement). This course provides indoctrination to the fire fighting profession. Students will be evaluated and then academically and physically prepared for the rigors of being a firefighter. The course of study will entail numerous field trips to local fire fighting facilities after school hours and on the weekends. Handling of hazardous materials will be studied. Students will experience actual fighting of fires in order to obtain Fire Fighter I & II certifications. This program offers dual enrollment college credit through Thomas Nelson Community College as well as an opportunity for a Fire Fighter apprenticeship with the completion of EMT.

## **WORKPLACE TRAINING**

### **INTERSESSION WORKPLACE SKILLS TRAINING (was 9077 and 9078)**

**9075 Salon Assistant**

**9076 Basic Mechanic**

**Grades 11 or 12**

**1 credit**

**Prerequisite:** Students with disabilities are recommended through YCSD Transition Services Coordinator

These courses are offered at both the Butler Farm and Woodside Lane campuses during the period between the regular career and technical course sessions (10-11:30 a.m.). Skills courses vary and have included Salon Assistant, Security Assistant, Auto Detailing and Basic Mechanics. Transition coordinators will be able to provide the courses being offered for specific semesters.

# **YORK RIVER ACADEMY**

NOTE: Only students accepted into York River Academy may enroll in the courses listed below.

York River Academy (YRA), a charter school operated by the York County School Division 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 emphasis on computer repair/cabling and web design. At YRA, instructional activities are student-centered with teachers using a collaborative approach that prepares students for success in the classroom and the world of work. Applications for YRA are available in the guidance office in each middle and high school. Contact the York River Academy Principal (898-0516) for additional information.

York River Academy students may also enroll in **6135 Business Management**, **6612 Computer Information Systems I**, **6613 Computer Information Systems II (ADV)**, and **6670 IT Fundamentals**. These course descriptions are included in the Business and Information Technology section of the Program of Studies. Students may also enroll in the Computer Systems Technology series, **86221**, **86231**, **86241** included in the Trade and Industrial Education section of the Program of Studies. Students who enter 9<sup>th</sup> grade in 2011 and later are required to complete **6120 Economics and Personal Finance**.

**98280 WEB DESIGN / COMPUTER REPAIR**

**Grade 9**

**1 credit semester rotation**

The Web Design portion is a semester long course where students learn to create and publish Web pages using HTML, XHTML, and Macromedia Dreamweaver. Students learn how to manipulate text, optimize images, insert hyperlinks, create tables, submit forms and build a portfolio. The Computer Repair portion is a semester course where students are introduced to the ideology and methodology of computer repair through hands on problem solving activities. Students learn to troubleshoot and repair computer problems that arise from hardware, software and peripheral malfunctions.

**98281 A+ COMPUTER REPAIR AND CABLING I & II**

**98282 Grades 9-10**

**1 Credit per course**

These two courses engage students in an overview of computers and how software and hardware work together. In the first year course content includes: the system board, understanding and managing memory, hard drive installation and support, and an overview of cables and infrastructure. Second year content focuses on multimedia technology, understanding and supporting Windows workstations, purchasing a PC or building your own, and certification test preparation.

**98283 WEB DESIGN I & II****98284 Grades 9-10**  
**1 Credit per course**

In these two courses, topics include: overview of the Internet, web page authoring, hypertext markup language (HTML), HTML coding, HTML hyperlinks, horizontal rules and graphic elements, objects, plug-ins, viewers, and JAVA script. Second year content emphasizes web design principles, web page layout, multimedia considerations, and web development. Optional TNCC dual enrollment is available for this course. If students choose TNCC dual enrollment (3-credit TNCC course) tuition is charged and credit is awarded at the high school and college. TNCC's application process, placement testing procedures, and timelines must be followed.

**98285 WEB APPLICATIONS****Grade 11 (YRA)**  
**1Credit**

In Web Applications, the advanced Web Design student is challenged to research emerging technologies to create cutting edge projects. Students create virtual tours, publish podcasts and Webcasts, and oversee community Web-based projects. Industry certifications are pursued.

**98286 APPLIED RESEARCH PROJECTS****Grade 11(YRA)**  
**1Credit**

Applied Research Projects is a year-long course designed to showcase student mastery of technology principals through selected projects. This course for eleventh grade students builds expertise and knowledge in the areas of Web Design, Computer Repair, and integration of technology in a variety of tasks and settings. Industry certifications are pursued.

**98400 21<sup>ST</sup> CENTURY THEMES I & II****98401 Grades 9-10**  
**1 Credit per course**

These two courses provide an interdisciplinary, creative, and innovative approach to ideas and contemporary themes. Students learn clear, cogent strategies for effective use of web-based expository writing and 21<sup>st</sup> century media. Second year content expands on skills learned in the first year and engages students in problem-based learning projects.

**98402 DIGITAL PORTFOLIO SEMINAR I & II****98403 Grades 9-10**  
**1 Credit per course**

In these two courses, topics include peripherals; software; graphic organization and design; SOL preparation; creation of home pages; links to evidence learned; and refining, publishing, and presentation of documents. In the first year course, students create digital portfolios with hyperlinks and descriptions of artifacts/evidence of learning. The second year course content emphasizes Flash, the Flash environment, and in-depth service learning projects.

**98404 21<sup>ST</sup> CENTURY THEMES 3****Grade 11(YRA)**  
**1Credit**

21st Century Themes 3 is a year-long course that addresses the challenges of our technological society through projects designed to showcase students' proficiency in the manipulation of various hardware and software applications. This course is offered to eleventh grade students. Students are engaged in preparation for industry certifications in IC3 as well as other certification exams.



## York County School Division

*Eric Williams, Ed.D.*  
Division Superintendent  
898-0310

*Carl L. James, Ed.D.*  
Chief Operations Officer  
898-0466

*Dennis R. Jarrett, CPA, CPFO*  
Chief Financial Officer  
898-0449

*Stephanie L. Guy, Ed.D.*  
Chief Academic Officer  
898-0366

### School Board

*Barbara S. Haywood, District 1*  
593-9071

*Cindy Kirschke, District 2*  
897-1929

*Mark A. Medford, District 3*  
898-6900

*R. Page Minter, District 4*  
898-5604

*Robert W. George, D.D.S., District 5*  
897-1925

### Instruction

*Lisa Pennycuff, Ed.D.*  
Director of Accountability and Instructional Services  
898-0455

*Amy C. Colley*  
Director of Elementary Instruction  
898-0450

*Kipp D. Rogers, Ph.D.*  
Director of Secondary Instruction  
898-0409

### Administration

*Catherine L. Jones, Ed.D.*  
Director of School Administration  
833-2182

To contact School Board office staff via e-mail, visit <http://yorkcountyschools.org>

**Division HOTLINE Number: 890-1096**

*The York County School Division does not discriminate on the basis of race (Title VI), color, religion, national origin, sex (Title IX), age or disability (Section 504) in its educational programs, activities or employment.*

*For more information, contact:*

*Noreen Becci  
Title IX Coordinator  
302 Dare Road  
Yorktown, VA 23692  
(757) 898-0349*