2017-18 Secondary Registration & Information Guide
## TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTRODUCTION</td>
<td>1</td>
</tr>
<tr>
<td>Purpose</td>
<td>1</td>
</tr>
<tr>
<td>Academic and Career Plan</td>
<td>1</td>
</tr>
<tr>
<td>Using the Program of Studies</td>
<td>1</td>
</tr>
<tr>
<td>SCHEDULING</td>
<td>2</td>
</tr>
<tr>
<td>Middle School Scheduling</td>
<td>2</td>
</tr>
<tr>
<td>High School Scheduling</td>
<td>2</td>
</tr>
<tr>
<td>Course Selection Changes</td>
<td>2</td>
</tr>
<tr>
<td>Virtual &amp; Blended Learning Courses</td>
<td>2</td>
</tr>
<tr>
<td>PROMOTION AND CREDIT INFORMATION</td>
<td>3</td>
</tr>
<tr>
<td>Course Credits</td>
<td>3</td>
</tr>
<tr>
<td>Promotion</td>
<td>3</td>
</tr>
<tr>
<td>Grade Point Average and Class Rank</td>
<td>3</td>
</tr>
<tr>
<td>DIPLOMAS &amp; GRADUATION REQUIREMENTS</td>
<td>4</td>
</tr>
<tr>
<td>Advanced Studies Diplomas (26 Credits)</td>
<td>4</td>
</tr>
<tr>
<td>Standard Diplomas (22 Credits)</td>
<td>4</td>
</tr>
<tr>
<td>Modified Standard Diplomas (20 Credits)</td>
<td>5</td>
</tr>
<tr>
<td>Explanations and Clarifications</td>
<td>5</td>
</tr>
<tr>
<td>Special Recognitions</td>
<td>6</td>
</tr>
<tr>
<td>SPECIALTY PROGRAMS</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Placement and Advanced Courses</td>
<td>6</td>
</tr>
<tr>
<td>Dual Enrollment</td>
<td>7</td>
</tr>
<tr>
<td>Early College Scholars</td>
<td>7</td>
</tr>
<tr>
<td>Governor’s Health Sciences Academy</td>
<td>7</td>
</tr>
<tr>
<td>Governor’s School for Science &amp; Technology (GSST)</td>
<td>7</td>
</tr>
<tr>
<td>Honors Program</td>
<td>7</td>
</tr>
<tr>
<td>International Baccalaureate Diploma Programme</td>
<td>8</td>
</tr>
<tr>
<td>Naval Sciences</td>
<td>8</td>
</tr>
<tr>
<td>School of the Arts: Middle School Arts Magnet</td>
<td>9</td>
</tr>
<tr>
<td>Admission Procedures</td>
<td>9</td>
</tr>
<tr>
<td>Virtual High School</td>
<td>9</td>
</tr>
<tr>
<td>Virtual VA</td>
<td>9</td>
</tr>
<tr>
<td>York River Academy</td>
<td>9</td>
</tr>
<tr>
<td>THE 16 CAREER CLUSTERS</td>
<td>10</td>
</tr>
<tr>
<td>COURSE OFFERINGS</td>
<td>19</td>
</tr>
<tr>
<td>Career/Technical Education</td>
<td>20</td>
</tr>
<tr>
<td>Business &amp; Information Technology</td>
<td>20</td>
</tr>
<tr>
<td>Family &amp; Consumer Science</td>
<td>22</td>
</tr>
<tr>
<td>Governor’s Health Sciences Academy (BHS)</td>
<td>23</td>
</tr>
<tr>
<td>Marketing Education</td>
<td>24</td>
</tr>
</tbody>
</table>
Secondary Program of Studies

Technology Education 26
English 28
**Fine Arts** 32
  Art 32
  Drama 34
  Music 35
General Topics 37
Health & Physical Education 40
History/Social Science 41
Mathematics 44
Science 48
World Languages 53

**SPECIALTY PROGRAMS COURSE OFFERINGS** 56
  Governor’s School for Science & Technology (GSST) 56
  International Baccalaureate (IB) Diploma Programme 60
  Naval Sciences (THS & YHS) 63
  New Horizons Regional Education Center 64
  School of the Arts: Middle School Arts Magnet 69
  School of the Arts 71
  York River Academy 75

**APPENDIX A** 76
  Sequential Electives 76

**INDEX OF COURSE OFFERINGS** 78

82
Introduction

Purpose
The Secondary Program of Studies Registration and Information Guide is designed to provide students and their parents with information that will assist them in course selection and with long-range academic and career planning.

This guide includes information on graduation requirements, career planning, and instructional programs and courses offered in the middle and high schools of the York County School Division (YCSD). Additional information about courses and programs is also available in the school counseling office at each school.

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

Parents are asked to review this Secondary Program of Studies Registration and Information Guide with their student. The information provided 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.

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

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

Beginning with the 2013-2014 academic year, all schools shall begin the development of an Academic and Career Plan for each seventh grade student. A completed Academic and Career Plan will be in place by the spring of the student’s eighth grade year. The process continues with the annual review of progress toward the student’s established goals. Students, parents, school counselors and teachers work collaboratively to make appropriate course choices.

Using the Program of Studies
1) Familiarize Yourself with Graduation Requirements and Decide Which Diploma You Will Pursue
   - Advanced Studies
   - Standard

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

3) Identify Courses that Relate to Your Diploma Choice and Career Path

4) Meet with Your School Counselor to Finalize Your Course Selections

For additional information contact the School Counseling Office at:

Grafton Middle School
(757) 898-0560

Queens Lake Middle School
(757) 220-4070

Tabb Middle School
(757) 898-0319

Yorktown Middle School
(757) 898-0410

Bruton High School
(757) 220-4055

Grafton High School
(757) 898-0550

Tabb High School
(757) 867-5399

York High School
(757) 898-0424

York River Academy
(757) 898-0517
Students are encouraged to select rigorous courses that will provide an intellectual challenge and will also better prepare them for future courses and educational and/or career pursuits beyond high school.

**Middle School Scheduling**

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

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

**High School Scheduling**

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

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

**Course Load:** Students in grades 9 through 11 must take a full course load. A full course load is defined as:
- A/B schedule - seven credit-bearing courses
- Hybrid 4x4 schedule - eight credit-bearing courses

Students may be approved to take no more than eight credit-bearing courses per year based on academic history and principal recommendation.

**NOTE:** Students participating in Governor’s School may take no more than 4 courses at their home school.

**Course Availability:** Courses identified in the Program of Studies may not be offered at all schools. Factors affecting course offerings in a school can include staffing availability, low enrollment, the need for specialized equipment, and budgetary determinations.

**Electives:** Electives must be approved by a school counselor and must be in accordance with the academic and 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, except under limited circumstances, and must be compatible with local and state regulations. Written approval must be secured from the principal prior to enrollment in the course. With the exception of the methodology used to calculate transfer credits, weighted credit will not be awarded for coursework taken outside of the York County School Division.

**Course Selection 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.

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

**Virtual & Blended Learning Courses**

The York County School Division, as part of its academic program, offers engaging and interactive online courses through the Virtual Learning Program. Students enrolled in virtual learning courses may access their coursework through any computer with an internet connection. Students are most successful in virtual courses if they are independent learners, have good time management skills, and maintain a regular schedule of logging into courses and communicating with the online teacher.

Students are required to attend training prior to beginning the course. Students must log in to these virtual courses daily and must be actively engaged in online discussion. They will learn to track messages, submit documents electronically, and meet online with teachers and students through a virtual classroom. To learn more about available online courses, students may make an appointment with their school counselor.

Some online courses require tuition payment. The amount of tuition is determined based on the enrollment and student’s circumstances. Specific virtual course information and requirements are provided within the Course Offerings section.

Students entering grade 9 in 2013-14 or later are required to take one virtual or blended learning course prior to graduation. YCSD defines blended learning as a combination of tuition-bearing, full credit-bearing courses that are delivered through a combination of traditional classroom instruction and online instruction. This course is offered in places such as a charter school, a private school, or an online course provided by a school district.
of integrating traditional face-to-face instruction with online instruction.

**Course Credits**

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

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

**Weighted Credit:** Advanced Placement, advanced or other courses are identified as “weighted credit,” in which credit is increased due to the rigor of the curriculum and quality of work accomplished.

**Transfer Credit:** Transfer grades and credits from other school divisions will be 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 YCSD 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.

Additional information is available in school counseling offices.

**Promotion**

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

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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Credits Minimum</th>
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<tbody>
<tr>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>11</td>
<td>10</td>
</tr>
<tr>
<td>12</td>
<td>15</td>
</tr>
</tbody>
</table>

**Grade Point Average and Class Rank**

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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90-100</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>80-89</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>70-79</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>64-69</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>63 and Below</td>
<td>0</td>
</tr>
</tbody>
</table>

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

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

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

The York County School Division provides several diploma options and certificates to meet the individual needs of students. School counseling services provide regular opportunities for students and parents/guardians to evaluate student progress toward diploma requirements and to make adjustments to the type of diploma selected when necessary. Specific requirements for the diplomas listed in this section are available on the following pages.

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

**Advanced Studies Diploma:** This is the recommended diploma for students seeking entrance into a competitive four-year college or university upon graduation.

**Standard Diploma:** This diploma signifies that the student has met proficiency standards established by the Virginia Board of Education in reading, writing, mathematics, science and history.

**NOTE:** Once a student with disabilities has earned a Standard or Advanced Studies Diploma, YCSD’s obligation to provide free appropriate public education is terminated.
Applied Diploma: In accordance with the requirements of the Standards of Quality, a student with disabilities who completes the requirements of his or her IEP and does not meet the requirements for other diplomas shall be awarded a Special Diploma.

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.

Advanced Studies Diplomas (26 Credits)

<table>
<thead>
<tr>
<th>Content Area</th>
<th>Standard Credits Required</th>
<th>Verified Credits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics^A</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Science^B</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>History &amp; Social Science^C</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>World Languages^D</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Health &amp; PE</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Fine Arts or Career/ Technical Education</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Economics &amp; Personal Finance</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Student-Selected Test</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Virtual Course^E</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Standard Diplomas (22 Credits)

<table>
<thead>
<tr>
<th>Content Area</th>
<th>Standard Credits Required</th>
<th>Verified Credits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics^A</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Science^B</td>
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</tr>
<tr>
<td>History &amp; Social Science^C</td>
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<tr>
<td>Health &amp; PE</td>
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<td></td>
</tr>
<tr>
<td>World Languages, Fine Arts or Career/ Technical Education^F</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Economics &amp; Personal Finance</td>
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<td></td>
</tr>
<tr>
<td>Electives^F</td>
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<td></td>
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<tr>
<td>Student-Selected Test</td>
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<td>1</td>
</tr>
<tr>
<td>Virtual Course^G</td>
<td></td>
<td></td>
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<tr>
<td>Career/Technical Education Credential^H</td>
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</tr>
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</table>
Modified Standard Diplomas (20 Credits)

<table>
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<tr>
<th>Students Entering Ninth Grade in 2013-2014 or Later</th>
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<tbody>
<tr>
<td>The Modified Standard Diploma will not be available through the Virginia Department of Education for students who enter the ninth grade in 2013-2014 or later. Credit accommodations will be provided to allow students with disabilities who previously would have pursued a Modified Standard Diploma to earn a Standard Diploma.</td>
</tr>
</tbody>
</table>

Information on graduation requirements prior to 2011-2012 is available at each school counseling office.

**Explanations and Clarifications**

**A. Mathematics:** For the Advanced Studies Diploma, credits shall include at least four (4) different course selections from among Algebra I, Geometry, Algebra, Functions, and Data Analysis (AFDA), Algebra II, or other mathematics courses above the level of Algebra II. AFDA must be taken prior to Algebra II for credit towards the advanced studies graduation requirement; if out of sequence, the course will count as a math elective. For the Standard Diploma, three (3) credits must be earned at or above the level of Algebra I and shall include at least two (2) different course selections from Algebra I, Geometry, Algebra, Functions, and Data Analysis, Algebra II, or other mathematics courses above the level of Algebra II.

**B. Science:** For the Advanced Studies Diploma, credits must be from at least three (3) 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, credits must be from at least two (2) different science disciplines.

**C. History & Social Science:** For the Advanced Studies and Standard Diplomas, credits must include World History I or AP Human Geography, World History II or AP European History, Virginia & U.S. History or AP U.S. History, and Virginia & U.S. Government or AP U.S. Government and Politics.

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

**E. World Languages, Fine Arts, or Career/Technical Education:** One of the two (2) credits must be in Fine Arts or Career and Technical Education.

**F. Electives:** For the Standard Diploma, credits must include two (2) sequential electives. Sequential electives are defined as any series of courses in which the content increases or expands in scope as students move through the various levels of the courses. Sequential electives are not required to be taken in consecutive years.

Courses that fulfill another specific graduation requirement or courses that are substituted for a particular graduation requirement (e.g., Dance Arts credit substituted for a required PE credit) may not be used as part of the sequential elective requirement. A summary chart of approved sequences is provided in Appendix A.

**G. Virtual Course:** Students who enter the ninth grade for the first time in 2013-2014 or later must successfully complete one virtual course, which may be non-credit bearing, to graduate with an Advanced Studies or Standard Diploma. Students may fulfill this requirement by taking a virtual or blended course.

**H. Career/Technical Education Credential:** Students who enter the ninth grade for the first time in 2013-2014 or later must earn a career and technical education credential approved by the Board of Education to graduate with a Standard Diploma. High school CTE courses, including courses offered at New Horizons Regional Education Center, offer industry certification testing opportunities. All students take the W!SE Financial Literacy industry certification test in Economics & Personal Finance.

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

- Alternative courses to meet the standard credit requirements
- The opportunity to earn locally awarded verified credits in reading, writing and math, in addition to the previously available for science and history
- Additional tests approved by the Virginia Board of Education for earning verified credits

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

**Transfer Students:** See your school counselor for all graduation requirements.
For more information on high school graduation requirements in the Commonwealth of Virginia, visit the High School Graduation link on the Virginia Department of Education’s website at http://www.doe.virginia.gov.

Special Recognitions

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

The York County School Division and the International Baccalaureate (IB) Programme offer additional academic recognitions. Students may earn multiple recognitions.

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

Governor’s Seal: Awarded to students who earn an Advanced Studies Diploma with a “B” average or better, and who successfully complete college-level coursework to earn nine (9) transferable college credits in Advanced Placement, International Baccalaureate, Cambridge, or dual enrollment (Early College Scholars).

State Board of Education Career & Technical Education Seal: Awarded to 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 from the Commonwealth of Virginia.

State Board of Education Advanced Mathematics & Technology Seal: Awarded to students who earn the Standard or Advanced Studies Diploma and satisfy all of the mathematics requirements for the Advanced Studies Diploma with a “B” average in those courses; and 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.

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

State Board of Education Excellence in Civics Education Seal: Awarded to students who earn the Standard or Advanced Studies Diploma and complete Virginia & U.S. History and Virginia & 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; participating in: Boy Scouts, Girl Scouts, or similar organizations; in NJROTC; 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 enlist in the United States military prior to graduation and have good attendance with no disciplinary infractions as determined by School Board Policy.

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

York County School Division Community Services Seal: Awarded to students who complete the requirements for York County School Division’s Community Services Program.

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

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

Advanced Placement and Advanced Courses

Certain high school courses are designated as Advanced Placement (AP) or advanced. The requirements and expectations of these courses exceed those of regular grade-level courses in a particular content area. High school students who have completed prerequisite courses are eligible for AP courses as well as Virtual Virginia AP courses.
Dual Enrollment
Th e Thomas Nelson Community College and the York County School Division have an agreement in place that allows high school students to complete an Associate of Science in Social Science (A.S.) degree or a one-year General Education Certificate concurrently with a high school diploma. Students who wish to enroll in other college courses where formal agreements do not exist should discuss options with their school counselor.

There may be additional courses approved for dual enrollment as TNCC requirements change frequently. Please check with school counselors for updated dual enrollment information.

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

Governor’s Health Sciences Academy
Bruton High School in York County and Warwick High School in Newport News are the participating schools in the Governor’s Health Sciences Academy. Students may have the opportunity to participate in a variety of opportunities related to the health care field such as visiting research labs, businesses, colleges and universities to include a summer experience focused on Health Sciences developed by the Peninsula Council for Workforce Development.

Academy students are required to meet the following criteria to complete the program successfully: complete an advanced mathematics course beyond Algebra II, complete an advanced science course beyond Chemistry, maintain a minimum of a 2.5 GPA, and must complete the divisional career path resulting in an industry certification and/or at least nine (9) transferrable college credits. The Governor’s Health Sciences Academy completers will earn a Governor’s seal on their diploma.

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

Pre-Admissions Procedures
Admission to the program is highly competitive. Teacher recommendation 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 grades 9 and 10. Designated students will take prerequisite courses offered in their high schools and will participate in a variety of activities 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’ 10th grade year. Math and science GPAs, teacher recommendations, and PSAT scores are considered.

NOTE: Participation in the Pre-Admissions Series does not guarantee admission to the Governor’s School.

Honors Program
The York County School Division Honors Program is designed to provide students in grades 8–12 with the opportunity to complete a rigorous academic program. Eligible students choosing to participate in this program are required to complete all program requirements listed below. For going beyond the state’s requirements for an Advanced Studies Diploma, students who successfully complete the Honors Program will be recognized with the Honors Seal on their diplomas.

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

Program Requirements
Grade 8
- Students must complete the following courses: Advanced English 8; Civics and Economics; Algebra I or Advanced Geometry; Physical Science 8; World Language I/II (Chinese, French, German, Latin, Spanish, Arabic); Physical Education & Lifetime Fitness 8; Elective

Grades 9-12
- Students in the Honors Program must maintain a cumulative GPA of 3.00 in the ninth grade, and 3.25 in grades 10 through 12.

NOTE: Students entering the ninth grade in the fall of 2014 must maintain a cumulative GPA of 3.25 in the ninth grade, and 3.50 in grades 10 through 12.
- Students must take a minimum of six (6) AP classes representing four (4) content areas.
- Students must take a minimum of four (4) credits of the same World Language. World Language courses taken for high school credit and successfully completed
in the seventh grade may count as one of the four consecutive years.
To remain in the Honors Program, high school students must remain enrolled in a full course load each year, may not repeat a course, may not drop/withdraw from a class after the drop/add period, and may not have a final grade lower than a “C.” In addition, eighth grade students may not not expunge Algebra I or any World Language I course.
- Beginning in ninth grade, students must complete 20 hours of community service outside of school.

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

**International Baccalaureate Diploma Programme**

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

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 internationally minded, interdisciplinary nature of the IB liberal arts curriculum.

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

Students in grades 11 and 12 who have not been accepted to the full IB Diploma Programme may enroll in an IB course (either SL or HL) provided there is space available, the student receives two teacher recommendations, and all course-specific prerequisites have been met.

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

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

**Program Requirements**

- The minimum grade point average for the IB Diploma Programme is indicated in the IB Diploma Programme admissions agreement. Pre-Diploma/IB students are required to have a minimum GPA of 3.0 at the end of ninth grade, a 3.25 at the end of 10th grade, and a 3.4 at the end of 11th grade.

**NOTE:** Students entering the ninth grade in the fall of 2017 must maintain a cumulative GPA of 3.25 in the ninth grade, and 3.50 in grades 10 through 12.

**NOTE:** Students who do not maintain the minimum GPA are subject to being withdrawn from the IB Diploma Programme.

- Students may not earn a final grade lower than a C in any course and remain in the Pre-Diploma/IB Diploma Programme.
- Pre-Diploma students may opt to leave the program and re-enroll in the honors program at their home school if they meet honors requirements.

**Pre-Admissions Procedures**

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

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

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

**Naval Sciences**

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

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

All NJROTC/NNDCC cadets are eligible to participate in SAT and ACT online college preparatory programs at no cost. Cadets may be eligible for college credit for NJROTC/NNDCC courses, from the University of Colorado, if course requirements are met. Participation in NJROTC/NNDCC offers students an advantage in competition for military academy and college ROTC scholarships. Students who
complete two (2) or more years of the program are eligible to enter the military at an advanced pay grade and may be eligible to be a Career & Technical Education completer.

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

Students participating in the mSAM program begin and end their day at QLMS for core courses, and are transported to the School of the Arts (SOA) at Bruton High School for Literary Arts, Theatre Arts, and Rhythmic Arts courses during the school day.

Interested middle school students may apply for this program, which is located at Queens Lake Middle School (QLMS). For additional information on the mSAM, contact the QLMS Principal at (757) 220-4083.

Admission Procedures
Admission to the program is based on a random lottery system, grouped by grade level.

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 through 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.

Admission Procedures
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 at (757) 220-4095.

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

Virtual High School
The York County School Division provides full time and part time online courses through its Virtual High School (VHS) program. Secondary students may be allowed to enroll in VHS courses during the school year when courses are not offered in their school building. In addition, online courses are available for original or repeat credit during Summer Academy.

Core and elective courses may be requested based on the student’s individual circumstances by submitting a request in writing to the student’s school counselor. Pending principal approval, the request will be submitted to school board office staff for final approval. Courses that are available as Virtual Courses are noted within the Course Offerings section of this Program of Studies.

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 school counselor and ask about available online courses.

Virtual VA
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 students in grades 7 through 12 to expand their academic course options. Classes feature a rich variety of media including multimedia, online field trips, simulations, and interactive learning tools.

York River Academy
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 technology and web design while working toward a Standard Diploma.

At YRA, instructional activities are student-centered with teachers using collaborative approaches and blended instruction that prepare students for success in the classroom and the world of work. Applications for YRA are available in the school counseling office in each middle and high school. Contact the YRA Principal at (757) 898-0516 for additional information.
A Career Cluster is a grouping of occupations and broad industries based on commonalities. Career Clusters help students investigate careers and design their courses of study to advance their career goals. For this reason, Virginia has adopted the nationally accepted structure of 16 Career Clusters, career pathways and sample career specialties or occupations.

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

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

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

ARTS, A/V TECHNOLOGY & COMMUNICATIONS
Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

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

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

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

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

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

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

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

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

LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY
Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.

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

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

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

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

The Career Clusters® brand logo and its extensions are the property of the National Career Technical Education Foundation, as managed by NASDCTEc.
The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

### Pathways in this Cluster

<table>
<thead>
<tr>
<th>Agribusiness Systems</th>
<th>Animal Systems</th>
<th>Natural Resources Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Service Systems</td>
<td>Plant Systems</td>
<td>Power, Structural &amp; Technical Systems</td>
</tr>
<tr>
<td>Food Products &amp; Processing Systems</td>
<td></td>
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</tr>
</tbody>
</table>

### Sample Career Options

<table>
<thead>
<tr>
<th>Diploma with Some Training</th>
<th>Certification or Associate’s Degree</th>
<th>Bachelor’s Degree or Above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Florist</td>
<td>Biological Technician</td>
<td>Botanist</td>
</tr>
<tr>
<td>Landscaper/Groundskeeper</td>
<td>Environmental Technician</td>
<td>Ecologist</td>
</tr>
<tr>
<td>Pest Control</td>
<td>Veterinarian Technician</td>
<td>Environmental Engineer</td>
</tr>
<tr>
<td>Veterinary Assistant</td>
<td>Fish/Game Warden</td>
<td>Veterinarian</td>
</tr>
</tbody>
</table>

### Related YCSD Elective Courses

<table>
<thead>
<tr>
<th>Middle School</th>
<th>High School</th>
<th>New Horizons Regional Education Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Forensic Science</td>
<td>Ecology &amp; Environmental Science Career Mentorship</td>
<td>Veterinary Science</td>
</tr>
<tr>
<td>Exploring Our World</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to Technology Inventions and Innovations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering Design and Problem Solving Technological Systems</td>
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</tbody>
</table>

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

### Pathways in this Cluster

<table>
<thead>
<tr>
<th>Design/Pre-Construction</th>
<th>Construction</th>
<th>Maintenance/Operations</th>
</tr>
</thead>
</table>

### Sample Career Options

<table>
<thead>
<tr>
<th>Diploma with Some Training</th>
<th>Certification or Associate’s Degree</th>
<th>Bachelor’s Degree or Above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural Drafter</td>
<td>Carpenter</td>
<td>Architect</td>
</tr>
<tr>
<td>Construction Worker</td>
<td>Electrician</td>
<td>Construction Manager</td>
</tr>
<tr>
<td>Roofer</td>
<td>HVAC Mechanic</td>
<td>Civil Engineer</td>
</tr>
<tr>
<td></td>
<td>Plumber</td>
<td></td>
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</tbody>
</table>

### Related YCSD Elective Courses

<table>
<thead>
<tr>
<th>Middle School</th>
<th>High School</th>
<th>New Horizons Regional Education Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Design and Problem Solving Technological Systems</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Secondary Program of Studies

#### Arts, A/V Technology & Communications

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

### Pathways in this Cluster

<table>
<thead>
<tr>
<th>A/V Technology &amp; Film</th>
<th>Performing Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printing Technology</td>
<td>Journalism &amp; Broadcasting</td>
</tr>
<tr>
<td>Visual Arts</td>
<td>Telecommunications</td>
</tr>
</tbody>
</table>

### Sample Career Options

<table>
<thead>
<tr>
<th>Diploma with Some Training</th>
<th>Certification or Associate’s Degree</th>
<th>Bachelor’s Degree or Above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printing Equipment Operator</td>
<td>Broadcast Technician</td>
<td>Computer Animator</td>
</tr>
<tr>
<td>Actor, Dancer, Musician</td>
<td>Desktop Publisher Stylist</td>
<td>Graphic Artist</td>
</tr>
<tr>
<td></td>
<td>Photographer/Videographer</td>
<td>Journalist</td>
</tr>
</tbody>
</table>

### Related YCSD Elective Courses

<table>
<thead>
<tr>
<th>Middle School</th>
<th>High School</th>
<th>New Horizons Regional Education Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art/Drama/Band/Chorus</td>
<td>Art/Drama/Band/Chorus</td>
<td></td>
</tr>
<tr>
<td>Intro to Programming &amp; Game Design</td>
<td>Design, Multimedia &amp; Web Technologies</td>
<td></td>
</tr>
<tr>
<td>Introduction to Technology</td>
<td>Evolution of Cinema A &amp; B</td>
<td></td>
</tr>
<tr>
<td>Inventions &amp; Innovations</td>
<td>Programming &amp; Game Design</td>
<td></td>
</tr>
<tr>
<td>Writers’ Roundtable</td>
<td>Programming &amp; Introduction to Computer Science</td>
<td></td>
</tr>
<tr>
<td>Yearbook/Public Speaking</td>
<td>Literary Magazine/Mass Media I &amp; II</td>
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<td></td>
<td>Newspaper/Mass Media I &amp; II</td>
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<tr>
<td></td>
<td>Public Speaking: Presentation</td>
<td></td>
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<tr>
<td></td>
<td>Yearbook/Mass Media I &amp; II</td>
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<tr>
<td></td>
<td>Career Mentorship</td>
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</tr>
</tbody>
</table>

#### Business, Management & Administration

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

### Pathways in this Cluster

<table>
<thead>
<tr>
<th>General Management</th>
<th>Operations Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Information Management</td>
<td>Administrative Support</td>
</tr>
<tr>
<td>Human Resources Management</td>
<td></td>
</tr>
</tbody>
</table>

### Sample Career Options

<table>
<thead>
<tr>
<th>Diploma with Some Training</th>
<th>Certification or Associate’s Degree</th>
<th>Bachelor’s Degree or Above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative Assistant</td>
<td>Legal Assistant</td>
<td>Certified Public Accountant</td>
</tr>
<tr>
<td>Customer Service Representative</td>
<td>Office Manager</td>
<td>Finance Director</td>
</tr>
<tr>
<td>Receptionist</td>
<td>Claims Adjuster</td>
<td>Human Resources Manager</td>
</tr>
</tbody>
</table>

### Related YCSD Elective Courses

<table>
<thead>
<tr>
<th>Middle School</th>
<th>High School</th>
<th>New Horizons Regional Education Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Criminal Justice</td>
<td>Career Mentorship</td>
<td></td>
</tr>
<tr>
<td>Digital Literacy</td>
<td>Computer Applications</td>
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<tr>
<td>Public Speaking</td>
<td>Fashion Marketing I &amp; II/CO-OP &amp; OE</td>
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<tr>
<td></td>
<td>Introduction to Marketing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Marketing I &amp; II/ CO-OP &amp; OE</td>
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<tr>
<td></td>
<td>Marketing Management</td>
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</tbody>
</table>
### Secondary Program of Studies

#### Sports, Recreation & Entertainment

<table>
<thead>
<tr>
<th>Diploma with Some Training</th>
<th>Certification or Associate’s Degree</th>
<th>Bachelor’s Degree or Above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child Care Worker</td>
<td>Para-Educator</td>
<td>Teacher</td>
</tr>
<tr>
<td>Coach</td>
<td>PreSchool Teacher</td>
<td>School Counselor</td>
</tr>
<tr>
<td>Library Assistant</td>
<td></td>
<td>Principal</td>
</tr>
</tbody>
</table>

### Pathways in this Cluster
- Administration & Administrative Support
- Professional Support Services
- Teaching/Training

### Sample Career Options

<table>
<thead>
<tr>
<th>Diploma with Some Training</th>
<th>Certification or Associate’s Degree</th>
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<tr>
<td>Child Care Worker</td>
<td>Para-Educator</td>
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<tr>
<td>Coach</td>
<td>PreSchool Teacher</td>
<td>School Counselor</td>
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<tr>
<td>Library Assistant</td>
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<td>Principal</td>
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</table>

### Related YCSD Elective Courses

<table>
<thead>
<tr>
<th>Middle School</th>
<th>High School</th>
<th>New Horizons Regional Education Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art/Band/Drama/Chorus</td>
<td>Psychology</td>
<td>Early Childhood Education I &amp; II</td>
</tr>
<tr>
<td>Digital Literacy</td>
<td>Sociology</td>
<td></td>
</tr>
<tr>
<td>Public Speaking</td>
<td>Career Mentorship</td>
<td></td>
</tr>
<tr>
<td>Writers’ Roundtable</td>
<td></td>
<td></td>
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</tbody>
</table>

### Finance

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

#### Pathways in this Cluster
- Securities & Investments
- Insurance
- Business Finance
- Banking Services
- Accounting

#### Sample Career Options

<table>
<thead>
<tr>
<th>Diploma with Some Training</th>
<th>Certification or Associate’s Degree</th>
<th>Bachelor’s Degree or Above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bank Teller</td>
<td>Claims Agent</td>
<td>Accountant</td>
</tr>
<tr>
<td>Insurance Clerk</td>
<td>Tax Preparer</td>
<td>Economist</td>
</tr>
</tbody>
</table>

### Related YCSD Elective Courses

<table>
<thead>
<tr>
<th>Middle School</th>
<th>High School</th>
<th>New Horizons Regional Education Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Literacy</td>
<td>Accounting I &amp; II</td>
<td>Early Childhood Education I &amp; II</td>
</tr>
<tr>
<td>Public Speaking</td>
<td>Career Mentorship</td>
<td></td>
</tr>
</tbody>
</table>
### Government & Public Administration

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

#### Pathways in this Cluster

<table>
<thead>
<tr>
<th>Governance</th>
<th>National Security</th>
<th>Foreign Service</th>
<th>Planning</th>
<th>Revenue &amp; Taxation</th>
<th>Regulation</th>
<th>Public Management &amp; Administration</th>
</tr>
</thead>
</table>

#### Sample Career Options

<table>
<thead>
<tr>
<th>Diploma with Some Training</th>
<th>Certification or Associate’s Degree</th>
<th>Bachelor’s Degree or Above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cargo Inspector</td>
<td>Census Clerk</td>
<td>City Manager</td>
</tr>
<tr>
<td>Postal Clerk</td>
<td>Legislative Assistant</td>
<td>Internal Revenue Investigator</td>
</tr>
</tbody>
</table>

#### Related YCSD Elective Courses

<table>
<thead>
<tr>
<th>Middle School</th>
<th>High School</th>
<th>New Horizons Regional Education Center</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Naval Science I, II, III &amp; IV</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Career Mentorship</td>
<td></td>
</tr>
</tbody>
</table>

### Health Science

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

#### Pathways in this Cluster

<table>
<thead>
<tr>
<th>Therapeutic Services</th>
<th>Support Services</th>
<th>Biotechnology Research &amp; Development</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

#### Sample Career Options

<table>
<thead>
<tr>
<th>Diploma with Some Training</th>
<th>Certification or Associate’s Degree</th>
<th>Bachelor’s Degree or Above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dental Assistant</td>
<td>Dental Hygienist</td>
<td>Dentist</td>
</tr>
<tr>
<td>Home Health Aide</td>
<td>Licensed Practical Nurse (LPN)</td>
<td>Registered Nurse (RN)</td>
</tr>
<tr>
<td>Nursing Assistant</td>
<td>EMT</td>
<td>Physician</td>
</tr>
</tbody>
</table>

#### Related YCSD Elective Courses

<table>
<thead>
<tr>
<th>Middle School</th>
<th>High School</th>
<th>New Horizons Regional Education Center</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Intro to Health &amp; Medical Sciences</td>
<td>Veterinary Science</td>
</tr>
<tr>
<td></td>
<td>Medical Terminology</td>
<td>Dental Assistant I &amp; II</td>
</tr>
<tr>
<td></td>
<td>Leadership Development</td>
<td>Emergency Medical Technician</td>
</tr>
<tr>
<td></td>
<td>Career Mentorship</td>
<td>Medical Assistant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nursing Assistant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pharmacy Technician</td>
</tr>
</tbody>
</table>
### Hospitality & Tourism

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

#### Pathways in this Cluster

<table>
<thead>
<tr>
<th>Pathways in This Cluster</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restaurants &amp; Food/Beverage Services</td>
</tr>
<tr>
<td>Lodging</td>
</tr>
</tbody>
</table>

#### Sample Career Options

<table>
<thead>
<tr>
<th>Diploma with Some Training</th>
<th>Certification or Associate’s Degree</th>
<th>Bachelor’s Degree or Above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tour Guide</td>
<td>Travel Agent</td>
<td>Director of Tourism</td>
</tr>
<tr>
<td>Guest Service Representative</td>
<td>Hotel Manager</td>
<td>Event Planner</td>
</tr>
<tr>
<td>Cook</td>
<td>Food Service Manager/Chef</td>
<td>Marketing Manager</td>
</tr>
</tbody>
</table>

#### Related YCSD Elective Courses

<table>
<thead>
<tr>
<th>Middle School</th>
<th>High School</th>
<th>New Horizons Regional Education Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Literacy Exploring Our World Newspaper/Mass Media Public Speaking Writers’ Roundtable</td>
<td>Sports and Entertainment Marketing I &amp; II Career Mentorship</td>
<td>Culinary Arts I &amp; II</td>
</tr>
</tbody>
</table>

---

### Human Services

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

#### Pathways in this Cluster

<table>
<thead>
<tr>
<th>Pathways in this Cluster</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early Childhood Development &amp; Services</td>
</tr>
<tr>
<td>Counseling &amp; Mental Health Services</td>
</tr>
<tr>
<td>Family &amp; Community Services</td>
</tr>
</tbody>
</table>

#### Sample Career Options

<table>
<thead>
<tr>
<th>Diploma with Some Training</th>
<th>Certification or Associate’s Degree</th>
<th>Bachelor’s Degree or Above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hair Stylist</td>
<td>Cosmetologist</td>
<td>Licensed Professional Counselor</td>
</tr>
<tr>
<td>Personal Fitness Trainer</td>
<td>Grief Counselor</td>
<td>Social Worker</td>
</tr>
<tr>
<td></td>
<td>Massage Therapist</td>
<td>Volunteer Coordinator</td>
</tr>
</tbody>
</table>

#### Related YCSD Elective Courses

<table>
<thead>
<tr>
<th>Middle School</th>
<th>High School</th>
<th>New Horizons Regional Education Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Criminal Justice</td>
<td>Business Law</td>
<td>Barbering I &amp; II</td>
</tr>
<tr>
<td>Public Speaking</td>
<td>Business Management</td>
<td>Cosmetology I &amp; II</td>
</tr>
<tr>
<td></td>
<td>Career Mentorship</td>
<td></td>
</tr>
</tbody>
</table>
### Secondary Program of Studies

#### Information Technology

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

### Pathways in this Cluster

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

### Sample Career Options

<table>
<thead>
<tr>
<th>Diploma with Some Training</th>
<th>Certification or Associate’s Degree</th>
<th>Bachelor’s Degree or Above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Repair Technician</td>
<td>Database Administrator</td>
<td>Computer Programmer</td>
</tr>
<tr>
<td>Data Entry</td>
<td>Web Designer</td>
<td>Network Administrator</td>
</tr>
<tr>
<td>Help Desk Technician</td>
<td></td>
<td>Software Engineer</td>
</tr>
</tbody>
</table>

### Related YCSD Elective Courses

<table>
<thead>
<tr>
<th>Middle School</th>
<th>High School</th>
<th>New Horizons Regional Education Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Literacy</td>
<td>Information Technology Fundamentals</td>
<td>Computer Networking</td>
</tr>
<tr>
<td>Intro to Programming &amp; Game Design</td>
<td>Computer Information Systems I &amp; II</td>
<td></td>
</tr>
<tr>
<td>Inventions and Innovations</td>
<td>Design, Multimedia &amp; Web Technologies</td>
<td></td>
</tr>
<tr>
<td>Engineering Design and Problem Solving</td>
<td>Programming &amp; Game Design</td>
<td></td>
</tr>
<tr>
<td>Technological Systems</td>
<td>Programming &amp; Introduction to Computer Science</td>
<td></td>
</tr>
<tr>
<td>*</td>
<td>Student Technology Leadership Corp</td>
<td></td>
</tr>
<tr>
<td>*</td>
<td>Career Mentorship</td>
<td></td>
</tr>
</tbody>
</table>

#### Public Safety, Corrections & Security

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

### Pathways in this Cluster

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

### Sample Career Options

<table>
<thead>
<tr>
<th>Diploma with Some Training</th>
<th>Certification or Associate’s Degree</th>
<th>Bachelor’s Degree or Above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Dispatcher</td>
<td>Court Reporter</td>
<td>Attorney</td>
</tr>
<tr>
<td>Firefighter/Police Officer</td>
<td>Paralegal</td>
<td>Emergency Management Director</td>
</tr>
<tr>
<td>Security Guard</td>
<td></td>
<td>Probation Officer</td>
</tr>
</tbody>
</table>

### Related YCSD Elective Courses

<table>
<thead>
<tr>
<th>Middle School</th>
<th>High School</th>
<th>New Horizons Regional Education Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Criminal Justice</td>
<td>Career Mentorship</td>
<td>Criminal Justice</td>
</tr>
<tr>
<td>Introduction to Forensic Science</td>
<td></td>
<td>EMT</td>
</tr>
<tr>
<td>Public Speaking</td>
<td></td>
<td>Firefighter</td>
</tr>
<tr>
<td>Writers’ Roundtable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Secondary Program of Studies

#### Manufacturing

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

<table>
<thead>
<tr>
<th>Pathways in this Cluster</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production</td>
</tr>
<tr>
<td>Manufacturing Production &amp; Process</td>
</tr>
<tr>
<td>Development</td>
</tr>
<tr>
<td>Maintenance, Installation &amp; Repair</td>
</tr>
<tr>
<td>Quality Assurance</td>
</tr>
<tr>
<td>Logistics &amp; Inventory Control</td>
</tr>
<tr>
<td>Health, Safety &amp; Environmental Assurance</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sample Career Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diploma with Some Training</td>
</tr>
<tr>
<td>Dispatcher</td>
</tr>
<tr>
<td>Forklift Operator</td>
</tr>
<tr>
<td>Welder</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Related YCSD Elective Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middle School</td>
</tr>
<tr>
<td>Inventions and Innovations</td>
</tr>
<tr>
<td>Engineering Design and Problem Solving</td>
</tr>
<tr>
<td>Technological Systems</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

#### Marketing

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

<table>
<thead>
<tr>
<th>Pathways in this Cluster</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing Management</td>
</tr>
<tr>
<td>Professional Sales</td>
</tr>
<tr>
<td>Merchandising</td>
</tr>
<tr>
<td>Marketing Communications</td>
</tr>
<tr>
<td>Marketing Research</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sample Career Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diploma with Some Training</td>
</tr>
<tr>
<td>Shipping/Receiving Clerk</td>
</tr>
<tr>
<td>Telemarketer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Related YCSD Elective Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middle School</td>
</tr>
<tr>
<td>Art/Drama/Chorus</td>
</tr>
<tr>
<td>Newspaper/Mass Media</td>
</tr>
<tr>
<td>Public Speaking</td>
</tr>
<tr>
<td>Writers’ Roundtable</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
### Secondary Program of Studies

**Science, Technology, Engineering & Mathematics**

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

### Pathways in this Cluster

**Engineering & Technology**

**Science & Math**

### Sample Career Options

<table>
<thead>
<tr>
<th>Diploma with Some Training</th>
<th>Certification or Associate’s Degree</th>
<th>Bachelor’s Degree or Above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drafter</td>
<td>CAD Technician</td>
<td>Aerospace Engineer</td>
</tr>
<tr>
<td>Field Crew Surveyor</td>
<td>Electronics Technician</td>
<td>Chemist</td>
</tr>
<tr>
<td></td>
<td>Survey Technician</td>
<td>Statistician</td>
</tr>
</tbody>
</table>

### Related YCSD Elective Courses

<table>
<thead>
<tr>
<th>Middle School</th>
<th>High School</th>
<th>New Horizons Regional Education Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Literacy</td>
<td>Technology Foundations</td>
<td>Intro to Electronics and Robotics</td>
</tr>
<tr>
<td>Intro to Programming &amp; Game Design</td>
<td>Basic Technical Drawing/Design/CAD</td>
<td>Advanced Robotics and Fiber Optics</td>
</tr>
<tr>
<td>Introduction to Technology</td>
<td>Engineering Drawing/Design/CAD</td>
<td>Mechatronics I, II, III</td>
</tr>
<tr>
<td>Inventions and Innovations</td>
<td>Engineering Exploration</td>
<td></td>
</tr>
<tr>
<td>Engineering Design and Problem Solving</td>
<td>Career Mentorship</td>
<td></td>
</tr>
<tr>
<td>Technological Systems</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### Pathways in this Cluster

**Transportation Operations**

**Logistics Planning & Management Services**

**Warehousing & Distribution Center Operations**

**Facility & Mobile Equipment Maintenance**

**Transportation Systems/Infrastructure Planning, Management & Regulation**

**Health, Safety & Environmental Management**

**Sales and Service**

### Sample Career Options

<table>
<thead>
<tr>
<th>Diploma with Some Training</th>
<th>Certification or Associate’s Degree</th>
<th>Bachelor’s Degree or Above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispatcher</td>
<td>Avionics Technician</td>
<td>Air Traffic Controller</td>
</tr>
<tr>
<td>Mechanic</td>
<td>Customs Inspector</td>
<td>Pilot</td>
</tr>
<tr>
<td>Truck Driver</td>
<td>Flight Attendant</td>
<td>Port Manager</td>
</tr>
</tbody>
</table>

### Related YCSD Elective Courses

<table>
<thead>
<tr>
<th>Middle School</th>
<th>High School</th>
<th>New Horizons Regional Education Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Literacy</td>
<td>Career Mentorship</td>
<td>Collision and Refinishing I, II &amp; III</td>
</tr>
<tr>
<td>Introduction to Technology</td>
<td></td>
<td>Auto Technology I &amp; II</td>
</tr>
<tr>
<td>Inventions and Innovations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering Design and Problem Solving</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technological Systems</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The following section provides information on courses offered by the York County School Division. Courses are listed within each academic discipline area in order of the earliest grade level availability. Grade-level designations represent the grade at which most students take the course described. Exceptions to the stated grade levels may be made to meet the educational needs of an individual student. Detailed information about courses and programs is available in the school counseling office at each school.

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

**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 maintained in each school and in the public libraries. They are also available online at yorkcountyschools.org. A parent/guardian who wishes for his/her child to 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.

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

**Course Fees**
Please be aware that some courses may have fees attached to them. If these fees would prevent you from taking the course, please see your school counselor for assistance.
Students must earn a minimum of one credit in Fine Arts or Career/Technical Education to earn an Advanced Studies Diploma. Students must earn a minimum of two credits in the areas of World Languages, Fine Arts, or Career/Technical Education to earn a Standard Diploma. At least one of the credits must be in Fine Arts or Career/Technical Education. Students who enter the ninth grade for the first time in 2013-2014 or later must earn a career and technical education credential approved by the Board of Education to graduate with a Standard Diploma. High school CTE courses, including courses offered at New Horizons Regional Education Center, offer industry certification testing opportunities as indicated in course descriptions. All students take the WISE Financial Literacy industry certification test in Economics & Personal Finance.

Career/Technical Education (CTE) courses are designed to prepare young people for productive futures while meeting the commonwealth’s need for well-trained and industry-certified technical workers. A sequence of courses can provide students with entry-level employment skills for internships, apprenticeships and preparation for industry certification. All CTE courses listed meet the Career and Technical Education credit requirements for graduation. CTE courses are offered in the following categories: Business & Information Technology, Health & Medical Sciences, Marketing Education, and Technology Education. The New Horizons Regional Education Center (NHREC) provides additional opportunities for students throughout the region who have met prescribed prerequisites. Courses available at NHREC are detailed in the Course Offerings section of this Program of Studies. For additional information about NHREC, call (757) 898-0469.

Business & Information Technology

Business & IT Course Offerings & Suggested Sequences

- Computer Applications
- Business Law
- Business Management
- Information Technology (IT) Fundamentals
- Accounting I
- Accounting II
- Design, Multimedia & Web Technologies
- Computer Information Systems I
- Computer Information Systems II
- Work-Based Learning
- New Horizons Regional Education Center Programs

Related Electives (Grades 9-12)

- Life Planning
- Career Mentorship
- Service Learning
- Leadership Business & Information Technology

Requirements for Career/Technical Program Completer in Business & Information Technology:
- Any two occupational Business & Informational Technology courses (or semester equivalents that equal two 36-week courses)

NOTE: Career/Technical Education courses prepare students to take industry certification exams.
### MIDDLE SCHOOL COURSE OFFERINGS

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEYBOARDING BASICS 6</td>
<td>61506</td>
</tr>
<tr>
<td>Grade 6</td>
<td>Quarter</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEYBOARDING/COMPUTER APPLICATIONS</td>
<td>61507</td>
</tr>
<tr>
<td>Grades 7-8</td>
<td>Semester</td>
</tr>
</tbody>
</table>

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.

### HIGH SCHOOL COURSE OFFERINGS

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER APPLICATION</td>
<td>6611</td>
</tr>
<tr>
<td>Grades 9-12</td>
<td>1 Credit</td>
</tr>
</tbody>
</table>

This course is designed for students to review correct keyboarding techniques while using software packages to gain a basic knowledge of word processing, spreadsheet, database, graphics, internet, and multimedia applications.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECONOMICS AND PERSONAL FINANCE</td>
<td>B6120</td>
</tr>
<tr>
<td>Grades 9-12</td>
<td>1 Credit</td>
</tr>
</tbody>
</table>

This blended-learning course is required for students who entered grade 9 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 this course may study concepts that prepare them for entry-level employment in the field of finance. All students take the WISE Financial Literacy industry certification test in this course. Even though students may take this course in grades 9 – 12, it is recommended that students take this course in the 10th or 11th grade due to graduation requirements.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFORMATION TECHNOLOGY (IT) FUNDAMENTALS</td>
<td>6670</td>
</tr>
<tr>
<td>Grades 9-12</td>
<td>1 Credit</td>
</tr>
</tbody>
</table>

This course focuses on skills related to information technology basics: Internet fundamentals, network systems, computer maintenance, upgrading, and troubleshooting;

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFORMATION TECHNOLOGY (IT) SUPPLEMENTAL</td>
<td>6671</td>
</tr>
<tr>
<td>Grades 9-12</td>
<td>1 Credit</td>
</tr>
</tbody>
</table>

This course provides an industry-recognized certification in basic testing, troubleshooting, and supporting networks and Internet-based applications.

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFORMATION TECHNOLOGY (IT) ADVANCED</td>
<td>6672</td>
</tr>
<tr>
<td>Grades 9-12</td>
<td>1 Credit</td>
</tr>
</tbody>
</table>

This course provides an industry-recognized certification in advanced network and Internet-based applications.

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCOUNTING I</td>
<td>6320</td>
</tr>
<tr>
<td>Grades 10-12</td>
<td>1 Credit</td>
</tr>
</tbody>
</table>

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

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSINESS MANAGEMENT</td>
<td>6136</td>
</tr>
<tr>
<td>Grades 10-12</td>
<td>.5 Credit</td>
</tr>
</tbody>
</table>

In this course, students study basic management concepts and leadership styles as they explore business ownership, planning, economics, international business, and human relations issues.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSINESS LAW</td>
<td>6132</td>
</tr>
<tr>
<td>Grades 10-12</td>
<td>.5 Credit</td>
</tr>
</tbody>
</table>

This course is designed for students to 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.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.
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).

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

**DESIGN, MULTIMEDIA & WEB TECHNOLOGIES**

<table>
<thead>
<tr>
<th>Grades</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-12</td>
<td>1</td>
</tr>
</tbody>
</table>

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

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

**ACCOUNTING II**

<table>
<thead>
<tr>
<th>Grades</th>
<th>Credit</th>
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<td>11-12</td>
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</table>

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.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

**Prerequisite:** Accounting I

**COMPUTER INFORMATION SYSTEMS II**

<table>
<thead>
<tr>
<th>Grades</th>
<th>Credit</th>
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<td>11-12</td>
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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.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

**Prerequisite:** Computer Information Systems I

**COOPERATIVE EDUCATION**

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<th>Grades</th>
<th>Credit</th>
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<td>11-12</td>
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Cooperative Education is a teaching method available in each occupational course. This is a career-preparation method that combines CTE classroom instruction with paid employment that is directly related to the student’s plan of study. The school and the employer plan, coordinate, and supervise the instruction and employment so that each contributes directly to the student's career objectives and employability. Students may earn credit toward graduation for cooperative education experiences, and they normally work between 11-15 hours per week to achieve a minimum of 396 hours.

**NOTE:** Students must complete an application.

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

**LEADERSHIP BUSINESS PROGRAM**

<table>
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<tr>
<th>Grades</th>
<th>Credit</th>
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<tr>
<td>11-12</td>
<td>.5</td>
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</table>

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.)

---

**Family & Consumer Science**

**MIDDLE SCHOOL COURSE OFFERINGS**

**FAMILY AND CONSUMER SCIENCES**

**EXPLORATORY I**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Duration</th>
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<tbody>
<tr>
<td>6</td>
<td>Quarter</td>
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</tbody>
</table>

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.

**FAMILY AND CONSUMER SCIENCES**

**EXPLORATORY II**

<table>
<thead>
<tr>
<th>Grades</th>
<th>Duration</th>
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</thead>
<tbody>
<tr>
<td>7-8</td>
<td>Semester</td>
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</tbody>
</table>

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.

**FAMILY AND CONSUMER SCIENCES**

**EXPLORATORY III**

<table>
<thead>
<tr>
<th>Grades</th>
<th>Duration</th>
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</thead>
<tbody>
<tr>
<td>7-8</td>
<td>Semester</td>
</tr>
</tbody>
</table>

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.

**Governor’s Health Sciences Academy (BHS)**

**HIGH SCHOOL COURSE OFFERINGS**

**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 as well as careers that require an associate’s degree or certification.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

**MEDICAL TERMINOLOGY**

Grades 10-12  
1 Credit

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

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

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

**LEADERSHIP DEVELOPMENT**

Grades 11-12  
1 Credit

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.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

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

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.

**CO-OP:** Requires completion of 540 hours of cooperative education.

**OE:** Requires completion of 360 hours of occupational experiences.

## HIGH SCHOOL COURSE OFFERINGS

**FUNDAMENTALS OF MARKETING** 8110
Grades 9-12 1 Credit
This basic elective course provides students with an understanding of marketing and prepares them for entry-level marketing employment.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

**FASHION MARKETING I/CO-OP** 81401
**FASHION MARKETING I/OE** 81402
Grades 10-12 CO-OP 3 Credits
OE 2 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.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.
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.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

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

Grades 10-12
CO-OP 3 Credits
OE 2 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.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

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

Grades 11-12
CO-OP 3 Credits
OE 2 Credits

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.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

**Prerequisite:** Marketing I (CO-OP or OE) or Fashion Marketing I (CO-OP or OE)

**MARKETING II/CO-OP** 81301

Grades 11-12
CO-OP 3 Credits
OE 2 Credits

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.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

**Prerequisite:** Marketing I/CO-OP or OE

**SPORTS & ENTERTAINMENT** 81771
**MARKETING II/CO-OP** 81772
**SPORTS & ENTERTAINMENT**

Grades 11-12
CO-OP 3 Credits
OE 2 Credits

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.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

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

**MARKETING MANAGEMENT** 8132

Grades 12
1 Credit

High school seniors who plan to attend college with a concentration in marketing, business, or management and/or who have tentative plans to manage or own a business will benefit from this course. Students develop critical-thinking and decision-making skills through the application of marketing principles to (a) small and large businesses, (b) nonprofit organizations, (c) the professions, (d) service industries, and other institutions or associations that market products, services, ideas, or people. Academic knowledge and skills (mathematics, science, English, and history-social science) related to the content are a part of this course. Computer/technology applications supporting this course are studied.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.
MIDDLE SCHOOL COURSE OFFERINGS

INTRODUCTION TO TECHNOLOGY  8481
Grade 6 Quarter
This course offers introductory experiences in technology that encourage creative problem solving and hands-on activities. The course also provides experiences using microcomputers, design simulations, and mechanical models as technological tools.

INVENTIONS & INNOVATIONS  8464
Grades 7-8 Semester
The focus of this course is inventions and innovation technology. Students study tools and machines, power and energy, transportation, and communication. Students apply skills with individual creativity to create models and inventions.

HIGH SCHOOL COURSE OFFERINGS

TECHNOLOGY FOUNDATIONS  8403
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.

NOTE: Students in this course have an opportunity to take an Industry Certification Test.

BASIC TECHNICAL DRAWING/DESIGN/CAD  8435
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.

ARCHITECTURAL DRAWING/DESIGN/CAD  8437
Grades 10-12 1 Credit
This course permits students to learn more about the principles of architecture and related drafting practices and techniques, building on the knowledge and skills mastered in Basic Technical Drawing/Design. The course provides information helpful for students wishing to pursue a career in architecture, interior design, or building construction.

NOTE: Students in this course have an opportunity to take an Industry Certification Test.

Prerequisite: Basic Technical Drawing/Design

ENGINEERING DRAWING/DESIGN/CAD  8436
Grades 10-12 1 Credit
This course permits students to experience the graphic language of industry for engineers, manufacturers, and technicians. Students continue in greater depth the drawing problems, skills, and techniques presented in Basic Technical Drawing/Design. 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. **NOTE:** Students in this course have an opportunity to take an Industry Certification Test. **Prerequisite:** Basic Technical Drawing/Design

**ENGINEERING EXPLORATION 8450**
Grades 10-12 1 Credit
This course will enable students to examine technology and engineering fundamentals related to solving real-world problems. Students will be exposed to a variety of engineering specialty fields and related careers and will gain a basic understanding of engineering history and design using mathematical and scientific concepts. Students will participate in hands-on projects in a laboratory setting as they communicate information through team-based presentations, proposals, and technical reports. **NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

**ADVANCED DRAWING/DESIGN/CAD 8438**
Grades 11-12 1 Credit
This course provides advanced computer applications in drawing and design with emphasis on isometric, oblique, perspective, and auxiliary views, revolutions, multi-view projection, and working drawings. **NOTE:** Students in this course have an opportunity to take an Industry Certification Test. **Prerequisite:** Basic Technical Drawing/Design & Engineering Drawing or Architectural Drawing

**LEADERSHIP TECHNOLOGY 90963**
**EDUCATION 90964**
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.)
Students must earn a minimum of four credits in English, with two verified credits, in order to graduate. 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.

English courses provide instruction in oral language, reading and literature, writing and grammar, research, and vocabulary. Students practice whole-class and independent reading, and teachers provide skills for reading fiction and nonfiction.

<table>
<thead>
<tr>
<th>English Course Offerings and Suggested Sequences</th>
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<tbody>
<tr>
<td>English 6 or Adv. English 6</td>
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<tr>
<td>English 7 or Adv. English 7</td>
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<tr>
<td>English 8 or Adv. English 8</td>
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<tr>
<td>English 9 or Adv. English 9</td>
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<tr>
<td>Adv. Literary Arts 9/SOA</td>
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<tr>
<td>English 10 or Adv. English 10</td>
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<tr>
<td>Adv. Literary Arts 10/SOA</td>
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<tr>
<td>English 11 or AP English 11</td>
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<tr>
<td>Adv. Literary Arts 11/SOA</td>
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<tr>
<td>English 12 or AP English 12</td>
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<tr>
<td>Adv. Literary Arts 12/SOA</td>
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<table>
<thead>
<tr>
<th>English Electives (Grades 9-12)</th>
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<tbody>
<tr>
<td>Creative Writing: Poetry</td>
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<tr>
<td>Creative Writing: Prose</td>
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<tr>
<td>Public Speaking: Communication</td>
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<tr>
<td>Public Speaking: Presentation</td>
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<tr>
<td>Literary Magazine/Mass Media I &amp; II</td>
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<tr>
<td>Newspaper Magazine/Mass Media I &amp; II</td>
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<tr>
<td>Yearbook Magazine/Mass Media I &amp; II</td>
</tr>
<tr>
<td>Directed Study English</td>
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<tr>
<td>*Adv. Literary Arts Writing Practicum (SOA)</td>
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</tbody>
</table>
MIDDLE SCHOOL COURSE OFFERINGS

ADVANCED ENGLISH 6  
Grade 6  
This course provides an opportunity for students to independently read a variety of fiction, narrative nonfiction, and poetry while becoming more independent and analytical. Students will compare literary elements, participate in shared inquiry discussions, formulate questions, build generalizations, and give academic responses to literature. Students will begin the study of word origins and continue vocabulary development. Technology will be used as a tool to research, organize, and communicate information. 

NOTE: Summer assignments are required.

ENGLISH 6  
Grade 6  
This course provides an opportunity for students to independently read a variety of fiction, narrative nonfiction, and poetry while becoming more independent and analytical. Students will plan, draft, revise, and edit narrative, descriptive, expository, and persuasive writing with attention to composition and written expression as well as sentence formation, usage, and mechanics. Students will begin the study of word origins and continue vocabulary development. Technology will be used as a tool to research, organize, and communicate information. Critical thinking will be stressed.

NOTE: Summer assignments may be required.

ADVANCED ENGLISH 7  
Grade 7  
This course provides an opportunity for students to read a wide variety of fiction, nonfiction, and poetry while becoming more independent and analytical. Students will compare literary elements, participate in shared inquiry discussions, formulate questions, build generalizations, and give academic responses to literature. Students will learn to analyze their own writing and set goals to improve their grammar, usage, mechanics, and/or organizational skills. Students will continue the study of word origins and continue vocabulary development. Technology will be used as a tool to research, organize, and communicate information.

NOTE: Summer assignments are required.

ENGLISH 7  
Grade 7  
This course provides an opportunity for students to read a wide variety of fiction, nonfiction, and poetry while becoming more independent and analytical. Learning opportunities will enable students to strengthen their comprehension, retain important concepts and information, and develop public speaking, listening, and presentation skills. Students will use the writing process to develop narrative, expository, and persuasive writing and begin to read and write critically about literature. Students will continue the study of word origins and continue vocabulary development. Technology will be used as a tool to research, organize, and communicate information.

NOTE: Summer assignments may be required.

READING WORKS 7 (A & B)  
Grades 7-8  
These courses provide students with additional instruction in reading. Emphasis is placed on skill improvement in reading comprehension, vocabulary and fluency.

ADVANCED ENGLISH 8  
Grade 8  
This course provides an opportunity for students to develop an appreciation for literary genres through a study of a wide variety of selections while becoming more independent and analytical. Students will compare literary elements, participate in shared inquiry discussions, formulate questions, build generalizations, and give academic responses to literature. Students will be provided the opportunity to develop analytical and critical thinking skills through close reading, commentary, and literary critique. Students will analyze their own writing and set goals to improve their grammar, usage, mechanics, and/or organizational skills. Students will continue the study of word origins and continue vocabulary development. Increased requirements for research and reporting in all subjects will be supported by the use of print, electronic databases, online resources, and other media.

NOTE: Summer assignments are required.

ENGLISH 8  
Grade 8  
This course provides an opportunity for students to continue to develop an appreciation for literary genres through a study of a wide variety of selections while becoming more independent and analytical. Students will compare literary elements, participate in shared inquiry discussions, formulate questions, build generalizations, and give academic responses to literature. Students will analyze their own writing and set goals to improve their grammar, usage, mechanics, and/or organizational skills. Students will continue the study of word origins and continue vocabulary development. Technology will be used as a tool to research, organize, and communicate information.

NOTE: Summer assignments may be required.
HIGH SCHOOL COURSE OFFERINGS

ADVANCED ENGLISH 9  11301
Grade 9  1 Weighted Credit
This course is designed to develop students’ critical and analytical language skills. Students will be introduced to significant literary texts and extensive nonfiction. Students will be provided multiple opportunities to develop higher-level analytical and critical thinking skills through close reading, commentary, and literary critique. Writing will encompass narrative, expository, and persuasive forms with attention to audience and purpose. Students will analyze their own writing and set goals to improve their grammar, usage, mechanics, and/or organizational skills. Increased requirements for critical reading, thinking, writing, and collaboration are expected. Students will continue the development of vocabulary with attention to connotations, idioms, and allusions.
NOTE: Summer assignments are required.

ENGLISH 9  1130
Grade 9  1 Credit
This course is designed to develop students’ critical and analytical language skills. Students will be introduced to significant literary texts and extensive nonfiction. Knowledge of the impact that informative and persuasive techniques in media messages make on public opinion will be introduced. Writing will encompass narrative, expository, and persuasive forms for a variety of purposes and audiences. Students will analyze their own writing and set goals to improve their grammar, usage, mechanics, and/or organizational skills. Students will continue the development of vocabulary with attention to connotations, idioms, and allusions.
NOTE: Summer assignments may be required.

ADVANCED ENGLISH 10  11401
Grade 10  1 Weighted Credit
This course is designed for students who have demonstrated ability and interest in English and helps students prepare for the AP Exam. World literature and language through reading and the development of analytical oral and written expression are emphasized.
NOTE: Summer assignments are required.
Prerequisite: English 9

ENGLISH 10  1140
Grade 10  1 Credit
This course is designed to develop students’ critical and analytical language skills. Students will read and analyze literary texts from a variety of eras and cultures. Students will be provided multiple opportunities to develop analytical and critical thinking skills through close reading, commentary, and literary critique. Elements of syntax, usage, and mechanics are integrated with reading, writing, and discussion activities. Students will continue to analyze their own writing and set goals to improve their grammar, usage, mechanics, and/or organizational skills. Students will continue the development of vocabulary with attention to connotations, idioms, allusions, and the evolution of language.
NOTE: Summer assignments may be required.
Prerequisite: English 9

AP ENGLISH 11: 1196
LANGUAGE & COMPOSITION
Grade 11  1 Weighted Credit
This introductory college-level course is designed to give students opportunities to deepen and expand their understanding of how written language functions rhetorically. As writers, students will learn how to communicate intentions and elicit readers’ responses in particular situations. Students will read and analyze a broad range of challenging nonfiction and prose selections. Reading and writing activities in this course also deepen students’ knowledge and control of formal conventions of written language. Students taking this course are encouraged to take the AP Exam.
NOTE: Summer assignments are required.
Prerequisite: English 10

ENGLISH 11  1150
Grade 11  1 Credit
This course is designed to enhance students’ appreciation of literature through the study of both classical and contemporary American literature. Students will identify prevalent themes and characterization present in American literature, which are reflective of history and culture. Students will use a variety of nonfiction texts to draw conclusions and make inferences citing textual support. Students will write clear and accurate personal, professional, and informational correspondence and reports for research and other application. Students will continue to analyze their own writing and set goals to improve their grammar, usage, mechanics, and/or organizational skills. Students will continue to expand and develop vocabulary.
NOTE: Summer assignments may be required.
Prerequisite: English 10

AP ENGLISH 12: 1195
LITERATURE & COMPOSITION
Grade 12  1 Weighted Credit
This college-level course is designed to engage students in the careful reading and critical analysis of imaginative literature. In this course, students will explore literary works from various genres and time periods. Students will practice close reading for selected texts in order to deepen their understanding of the ways writers use language and provide meaning and pleasure for their readers. As students read, they will consider the structure, style, and themes of the work to include the use of figurative language, imagery, symbolism, and tone. Students taking this course are encouraged to take the AP Exam.
NOTE: Summer assignments are required.
Prerequisite: English 11
ENGLISH 12  
Grade 12  
1 Credit  

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

NOTE: Summer assignments are required.  
Prerequisite: English 11

### ENGLISH ELECTIVE COURSE OFFERINGS

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Grade(s)</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>LITERARY MAGAZINE/MASS MEDIA I</td>
<td>1200</td>
<td>9-12</td>
<td>1</td>
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<tr>
<td>This course provides students with the opportunity to work on the production/ publication of a school literary magazine. Students in this course will read and analyze various literary works to include prose, poetry, and nonfiction. Students will practice skills such as building intrigue, scene development, establishing voice, and creating characters. Students will work on individual projects in which they apply the writing skills learned in this course. Advertisements may be sold for publications.</td>
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<tr>
<td>NOTE: This course is a Fine Arts elective.</td>
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<tr>
<td>NEWSPAPER/MASS MEDIA I</td>
<td>1210</td>
<td>9-12</td>
<td>1</td>
</tr>
<tr>
<td>This course introduces students to mass media and instructs students on various steps of reporting and news writing. Course content includes techniques for gathering and writing a story, journalism ethics and law, newspaper design and production, and business management. Advertisements may be sold for publications.</td>
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<tr>
<td>NOTE: This course is a Fine Arts elective.</td>
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<tr>
<td>PUBLIC SPEAKING: COMMUNICATION</td>
<td>13001</td>
<td>9-12</td>
<td>.5</td>
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<tr>
<td>This course highlights basic speech communication theories. Topics of focus include interviews, group dynamics, delivery techniques, and informative and persuasive presentations.</td>
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<tr>
<td>PUBLIC SPEAKING: PRESENTATION</td>
<td>13002</td>
<td>9-12</td>
<td>.5</td>
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<tr>
<td>This course explores a variety of communication delivery models. Emphasis is placed on PowerPoint presentations, debate, prose and poetic interpretations, and radio and television delivery.</td>
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<tr>
<td>YEARBOOK/MASS MEDIA I</td>
<td>1220</td>
<td>9-12</td>
<td>1</td>
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<tr>
<td>This course provides students with the opportunity to work on the production/ publication of a school yearbook. During this course, students will gain skills in gathering information, writing compelling stories, adhering to legal and ethical practices, and page design. Students will employ skills such as time management, project management, and problem solving. Students will use interpersonal skills in order to promote the school yearbook. Advertisements may be sold for publications.</td>
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<tr>
<td>NOTE: This course is a Fine Arts elective.</td>
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</tr>
<tr>
<td>CREATIVE WRITING: POETRY</td>
<td>11711</td>
<td>10-12</td>
<td>.5</td>
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<tr>
<td>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.</td>
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<tr>
<td>CREATIVE WRITING: PROSE</td>
<td>11712</td>
<td>10-12</td>
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<tr>
<td>This course extends students’ prose writing techniques. Emphasis is placed on a variety of prose models that include short stories, essays, and dramatic scripts. Advertisements may be sold for school publications.</td>
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<tr>
<td>GRAPHIC NOVELS AS LITERATURE</td>
<td>1165</td>
<td>10-12</td>
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<tr>
<td>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.</td>
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<tr>
<td>LITERARY MAGAZINE/MASS MEDIA II</td>
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<tr>
<td>This course provides students with the opportunity to focus on the editing and publication of a school literary magazine. Students will develop a “critical eye” in order to hone their editing, and design skills. During this course, students will continue to work on independent projects. Advertisements may be sold for publications.</td>
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<tr>
<td>NOTE: This course is a Fine Arts elective.</td>
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<tr>
<td>Prerequisite: Literary Magazine/Mass Media I</td>
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<tr>
<td>NEWSPAPER/MASS MEDIA II</td>
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<td>10-12</td>
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<tr>
<td>This course is designed to develop a student’s ability to write in a journalistic style. Students will apply their knowledge of journalism ethics and law, newspaper design and production, and business management for the publication of a school newspaper. Students may assume leadership roles in order to budget, design, edit, and supervise novice journalists. Advertisements may be sold for publications.</td>
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<tr>
<td>NOTE: This course is a Fine Arts elective.</td>
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<tr>
<td>Prerequisite: Newspaper/Mass Media I</td>
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Students must earn a minimum of one credit in Fine Arts or Career/Technical Education to earn an Advanced Studies Diploma.

Students must earn a minimum of two credits in the areas of World Languages, Fine Arts, or Career/Technology Education to earn a Standard Diploma. At least one of the credits must be in Fine Arts or Career/Technical Education.

YEARBOOK/MASS MEDIA II 12201
Grades 10-12 1 Credit
This course continues the focus on the production/publication of a school yearbook. Students continuing in the yearbook program hone leadership, time management, project management, and problem solving skills. Students will continue to employ interpersonal skills in order to promote the school yearbook. Students may assume leadership roles based on performance. Advertisements may be sold for publications.

NOTE: This course is a Fine Arts elective.

Prerequisite: Yearbook/Mass Media I

DIRECTED STUDY ENGLISH 15151 15152
Grades 11-12 .5 Credit
This is a writers’ workshop or independent reading course.

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

All courses listed within this section satisfy the Fine Arts credit towards graduation requirements. Courses that satisfy the sequential elective requirement are identified in Appendix A.

Art

MIDDLE SCHOOL COURSE OFFERINGS

EXPLORATORY ART 6 9103
Grade 6 Quarter
This course contributes to the students’ development of an aesthetic appreciation of the world around them through exploratory experiences in a variety of media including drawing, painting, and crafts.

DRAWING AND PAINTING 91061
Grades 7-8 Semester
This course is designed for students to study the principles and elements of design and participate in activities designed to develop skills in drawing and painting.

HIGH SCHOOL COURSE OFFERINGS

ART I: ART FOUNDATIONS 9120
Grades 9-12 1 Credit
This course emphasizes the development of students’ ability to recognize visual arts content, concepts, and skills to create, discuss, and understand original works of art. The course includes basic study of the components of art design and the creation of art products. Students develop understanding and appreciation for the visual arts through visual communication and production, cultural context and art history, judgment and criticism, and aesthetics. Students maintain a portfolio documenting their artistic accomplishments to take to the next level of art study.

CERAMICS A 91751
Grades 9-12 .5 Credit
This course is designed for students to identify basic pottery terms, utilize tools, and practice pottery hand-building and surface treatment techniques to create unique clay objects.

CERAMICS B 91752
Grades 9-12 .5 Credit
This course extends student understanding and practice with pottery hand-building techniques. Students use a variety of surface techniques to create culturally-inspired sculpture in clay. In addition, identification and practice of wheel-throwing techniques are included.

CRAFTS: CULTURAL ARTS 91612
Grades 9-12 .5 Credit
This course is designed for students to explore the history of art forms of a variety of selected cultures and incorporate the knowledge of indigenous art forms and techniques into individual works of art. Students work with a diversity of materials, and the designs and surface embellishments of student work are intended to relate to
and integrate various aspects (e.g., history, language, food, music) of the cultures being studied.

**CRAFTS: DECORATIVE ARTS & DESIGN 91601**

*Grades 9-12 5 Credit*

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

**ART II: INTERMEDIATE 9130**

*Grades 10-12 1 Credit*

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

**Prerequisite: Art I**

**ART HERITAGE** V9170

*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 AP 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.

**COMPUTER GRAPHIC ART 9180**

*Grades 10-12 1 Credit*

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

**Prerequisite: Art I**

**PHOTOGRAPHY & COMMUNICATION DESIGN I 9190**

*Grades 10-12 1 Credit*

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

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

*Grades 10-12 1 Credit*

This course provides the opportunity for students to develop perceptual, creative, technical, and problem-solving skills in a sculptural context. Students will learn basic world histories of 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.

**Prerequisite: Art I; any Ceramics or Crafts course offering**

**AP ART HISTORY 9151**

*Grades 11-12 1 Weighted Credit*

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

**NOTE: Summer assignments are required**

**Prerequisite: English or Art Teacher Recommendation**

**AP STUDIO ART: 2D 9148**

*Grades 11-12 1 Weighted Credit*

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

**Prerequisite: Art II or Photography II; Art Teacher Recommendation**

**AP STUDIO ART: 3D 9149**

*Grades 11-12 1 Weighted Credit*

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

**Prerequisite: Art I; Ceramics A and B or 3D Design; Art Teacher Recommendation**

**AP STUDIO ART: DRAWING PORTFOLIO 9150**

*Grades 11-12 1 Weighted Credit*

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

**Prerequisite: Art II; Art Teacher Recommendation**
ART III: ADVANCED INTERMEDIATE  9140
Grades 11-12  1 Credit
This course continues the emphasis on the development of abilities to organize and analyze visual art content and concepts and on skills in creating works of art. The focus on art history, evaluation, and aesthetics expands to include cultural and stylistic problem solving. Students begin to develop personal direction in the production of their works of art and continue to maintain a portfolio of selected works that is carried to the next level of art study.
Prerequisite: Art II

DIRECTED STUDY ART  91471  91472
Grades 11-12  .5 Credit
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.)
Prerequisite: Art I

PHOTOGRAPHY & COMMUNICATION DESIGN II  9191
Grades 11-12  1 Credit
This course expands instruction of the processes and design of black and white photography and/or digital photography. Topics include: artistic and practical techniques, equipment application, portfolio development, and job market awareness. Students focus on creative aspects of image manipulation and explore alternative results for digital images including, but not limited to, computer transfer and photo-xerography.
Prerequisite: Photography & Communication Design I

ART IV: ADVANCED  9145
Grade 12  1 Credit
This course reinforces competence and confidence in the skills of analysis, evaluation, and creation of works of art. The focus is a student-directed approach to art that includes: art criticism, aesthetics, refinement of skills, art history, cultural context, and personal expressive qualities. Completed portfolios at this level give evidence of quality, concentration, and breadth of work.
Prerequisite: Art III

Drama

MIDDLE SCHOOL COURSE OFFERINGS

DRAMA 6  1390
Grade 6  Quarter
This course provides opportunities for students to explore various aspects of informal drama and theatre through the basic skills of expression and communication.

DRAMA PRODUCTIONS  1395
Grades 7-8  Semester
This course provides opportunities for students to explore various aspects of drama including play reading and interpretation; basic acting techniques; and theatre history.

HIGH SCHOOL COURSE OFFERINGS

DRAMA IA  14101
DRAMA IB  14102
Grades 9-12  .5 Credit Each
This course is an introduction to drama with an emphasis on collaboration, basic acting techniques, theatre history, play reading, and interpretation.
NOTE: A full year fulfills the fine arts requirement.

SURVEY OF THE WORLD DRAMA  V14203
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.

TECHNICAL THEATRE A  14351
TECHNICAL THEATRE B  14352
Grades 9-12  .5 Credit Each
Through this course, students explore the technical elements of theatre production. Students gain practical experience with set construction, scenery painting, lighting, sound, props, costumes, makeup, and stage management. Safety issues and practices as well as proper care and storage of equipment are emphasized. Students provide technical support for a variety of events. Some after school participation is necessary. These courses may be repeated for credit with approval from instructor.

DRAMA IIA  14201
DRAMA IIB  14202
Grades 10-12  .5 Credit Each
This course continues the study of drama with an emphasis on acting techniques, technical theatre (stagecraft), staff management, and one-act play production.
NOTE: A full year fulfills the fine arts requirement.
Prerequisite: Two semesters of Drama I
DRAMA IIIA 14301
DRAMA IIIB 14302
Grades 11-12 .5 Credit Each

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

**NOTE:** A full year fulfills the fine arts requirement.

**Prerequisite:** Two semesters of Drama II

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DRAMA IVA 14401
DRAMA IVB 14402
Grade 12 .5 Credit Each

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

**NOTE:** A full year fulfills the fine arts requirement.

**Prerequisite:** Two semesters of Drama III

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**Music**

**MIDDLE SCHOOL COURSE OFFERINGS**

**VOCAL**

**INTRODUCTION TO CHORUS** 9269
Grade 6 Semester

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

**ADVANCED CHORUS** 92708
Grades 7-8 Year

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

**MUSICAL STAGE PRODUCTIONS** 9270
Grades 7-8 Semester

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

**INSTRUMENTAL**

**BEGINNING BAND 6** 9230
Grade 6 Year

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

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

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

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

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

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

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

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

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

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**HIGH SCHOOL COURSE OFFERINGS**

**VOCAL**

**CHORUS I** 9260
Grades 9-12 1 Credit

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

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

This course is designed to develop vocalists for performance in a variety of ensemble groups (e.g., 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.

**Prerequisite:** Audition

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

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

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

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

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

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

### INSTRUMENTAL

**BEGINNING GUITAR-ACOUSTIC** 9245

Grades 9-12 1 Credit

This course includes the basics of acoustic guitar playing and maintenance as well as the history of the instrument. Students will gain the skills needed to play in solo and ensemble settings. Students are responsible for providing their own acoustic guitar and participation in concerts and other musical performances is a requirement of this course.

**BRASS SECTIONALS** 92345

Grades 9-12 1 Credit

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.

**CONCERT BAND I** 9237

Grades 9-12 1 Credit

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

**MUSIC APPRECIATION A** 92221

**MUSIC APPRECIATION B** 92222

Grades 9-12 .5 Credit Each

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

**MUSIC THEORY** 92251

92252

Grades 9-12 .5 Credit

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

**PERCUSSION SECTIONALS I** 92343

Grades 9-12 1 Credit

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

**STAGE BAND I** 9250

Grades 9-12 1 Credit

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

**SYMPHONIC BAND I** 9239

Grades 9-12 1 Credit

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

**WOODWIND SECTIONALS I** 92341

Grades 9-12 1 Credit

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.

**BRASS SECTIONALS II** 92346

Grades 10-12 1 Credit

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.)

**CONCERT BAND II** 9238

Grades 10-12 1 Credit

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

**MUSIC THEORY** 92251

92252

Grades 10-12 .5 Credit

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

**PERCUSSION SECTIONALS II** 92344

Grades 10-12 1 Credit

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

**STAGE BAND II** 92501

Grades 10-12 1 Credit

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.)

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

**Prerequisite:** Percussion Sectionals I & Audition

**Prerequisite:** Stage Band I & Audition
SYMPHONIC BAND II 9240
Grades 10-12 1 Credit
In this course, advanced instruction in individual and group performance is expanded. The Symphonic Band represents the school in concerts, festivals, parades, football games, and other school-related activities. Participation in marching band, band camp, and/or other related band activities is a requirement of this course. (May be continued.)
Prerequisite: Symphonic Band I or Sectional I & Audition

WOODWIND SECTIONALS II 92342
Grades 10-12 1 Credit
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.)
Prerequisite: Woodwind Sectionals I & Audition

AP MUSIC THEORY 9226
Grades 11-12 1 Weighted Credit
This course is designed to explore aspects of melody, harmony, rhythm, musical analysis, history, and style to develop a student’s ability to recognize, describe and apply the concepts of music that are presented in a score. Students taking this course should have basic performance skills in voice or with an instrument and the ability to read and write musical notation. Students taking this course are encouraged to take the AP Exam.
Prerequisite: Band II or Chorus II; Band or Chorus Teacher Recommendation

DIRECTED STUDY MUSIC 92981
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.)

MIDDLE SCHOOL COURSE OFFERINGS

ACADEMIC SEMINAR 9828
98286
98287
98288
Grade 6-8 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.)

CAREER COMPASS 6 982801
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.

CONFLICT RESOLUTION SKILLS 6 98267
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.

DIGITAL LITERACY 00666
Grade 6 Quarter
In this exploratory wheel course, students gain proficiency with a variety of technology tools and applications that support content lessons and student products.

SET FOR SUCCESS 00668
Grade 6 Quarter
In this exploratory wheel course, students will incorporate their own learning styles to help them develop effective study techniques, time management, communication skills, and academic work habits.

ADVANCED COURSE EXPERIENCE 982808
Grades 7-8 Semester
This course is designed to motivate and prepare students for advanced course work in high school. Students are exposed to rigorous, advanced-level course work through project based learning experiences. The course goal is to develop foundational skills, key strategies, and content knowledge that students need to be successful in challenging courses such as AP and International Baccalaureate courses.

READERS’ ROUND TABLE 00665
Grades 7-8 Semester
This course provides opportunities for students to read and respond to multiple sources (novels, non-fiction, magazine, news, blogs, etc.). Analysis of content reading will include point of view, propaganda, authentic sources, and censorship.
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.

**CRIMINAL JUSTICE**

Grades 7-8  
This course will provide hands-on learning in criminal investigation and legal proceedings. Students will apply scientific investigation and technology to analyze legal cases.

**EXPLORING OUR WORLD**

Grades 7-8  
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.

**INTRODUCTION TO PROGRAMMING & GAME DESIGN**

Grades 7-8  
This blended-learning course provides an introduction to programming and the theory and practice of game design. Students will focus on elements of programming and design to create interactive games to include robotics. This course offers students opportunities to expand technology skills through analysis and development of games, graphics, audio, animation, and robotics.

**HIGH SCHOOL COURSE OFFERINGS**

**ACADEMIC TUTORIAL**

Grades 9-12  
This course assesses specific academic needs in the areas of reading, writing and mathematics and provides structured remediation within the school day. Content is designed to increase the academic success of the students in their regular high school course work. In addition to basic academic fundamentals, this course also includes note-taking strategies, reading/writing across the curriculum, organizational skills, test-taking strategies, time management, and career preparation. (May be continued.)

**AMERICAN SIGN LANGUAGE**

Grades 9-12  
This course provides an introduction of ASL as a visual language which is expressed through the hands, face, and body language. Students will actively engage in the development of visual language including phonemic components, fingerspelling, and movement to communicate. Emphasis is placed on grammar, culture, history, terminology, and other unique characteristics associated with ASL. This course will include a required face to face component.

**MIDDLE SCHOOL PUBLIC SPEAKING**

Grades 7-8  
This semester course provides students the opportunity to learn to communicate effectively and improve presentation skills while building self confidence in a variety of settings. The course will also focus on the development of leadership skills and team building. As part of this course, students will assist with the broadcasting of a morning middle school news program.

**MIDDLE SCHOOL YEARBOOK**

Grades 7-8  
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.

**NEWSPAPER/MASS MEDIA**

Grades 7-8  
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.

**WRITERS’ ROUNDTABLE**

Grades 7-8  
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.
LIFE PLANNING 98264
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.

NUTRITION AND WELLNESS 98263
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.

PROGRAMMING & GAME DESIGN V98408
Grades 9-12 1 Credit
This course provides a solid foundation in the essentials of programming and game design. Students will use programming language and game-development software to create engaging, interactive games in a variety of styles. In addition to learning about game genres, students will study all aspects of the game-design process including hand-on projects that teach all elements of game development. This virtual course offers students opportunities to expand technology skills through analysis and development of online games, graphics and animation.

LEADERSHIP SEMINAR A 982891
LEADERSHIP SEMINAR B 982892
Grades 10-12 .5 Credit Each
This course offers a study of theories of leadership with an emphasis on four strands: developing knowledge of self and others, defining leadership, developing leadership skills and practices, and practicing leadership through service projects.

PROGRAMMING & INTRODUCTION TO COMPUTER SCIENCE V98409
Grades 10-12 1 Credit
Students will use programming techniques to include control structures, functions, parameters, objects and classes. Application of game elements are used as a fundamental principal in integrating computer science concepts using C++ and other appropriate programming languages.

SAT PREPARATION 98261
Grades 10-12 (Pass/Fail) .5 Credit
This course provides preparation for the critical reading, writing, and mathematics sections of the Scholastic Aptitude Test. (May be continued.)

STUDENT TECHNOLOGY LEADERSHIP CORPS B984010
Grades 10-12 1 Credit
This course is uniquely designed to offer students an opportunity to advance their technological skills and leadership skills by supporting staff and students with the productive use of technology. Students will model online safety and responsible use of devices and applications. Viewed as the technology gurus of the school community, students will work with Informational Technology (IT) staff to provide assistance with hardware, software, networking, troubleshooting, and provide support with the integration of technology. Work sites may vary depending on the location in YCSD.

NOTE: This course will satisfy the virtual course requirement.

Prerequisite: Application & Interview

CAREER MENTORSHIP 982893
Grades 11-12 1 Credit
This course is a non-paid, work-based experience that allows students to apply knowledge, develop skills, and see a strong work ethic in practice. Students log 140 hours in a sponsoring work site and present a final project to earn one credit.

Prerequisite: Application

EVOLUTION OF CINEMA A 98406
EVOLUTION OF CINEMA B 98407
Grades 11-12 .5 Credit Each
These interdisciplinary courses focus on film appreciation, creation, and history. The courses introduce the technical aspects of film and 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.

MULTIMEDIA COMMUNICATIONS SEMINAR 0128
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 use various types of multimedia applications to produce collaborative, curriculum-based projects.
STUDENT ASSISTANCE EXPERIENCE  98265
98266
Grades 11-12  No Credit
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.)
Prerequisite: Application & recommendation of staff member being assisted

SERVICE LEARNING  9072
Grade 12  1 Credit
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.
Prerequisite: Application

Health & Physical Education
Students must earn a minimum of two credits in Health & Physical Education to graduate.

MIDDLE SCHOOL COURSE OFFERINGS

PHYSICAL EDUCATION/LIFETIME FITNESS 6  7111
Grade 6  Year
This course incorporates activities designed to develop lifetime physical fitness and conditioning through participation in selected team and individual activities.

PHYSICAL EDUCATION/LIFETIME FITNESS 7  7121
Grade 7  Year
This course incorporates activities designed to develop lifetime physical fitness and conditioning through participation in selected team and individual activities.

HIGH SCHOOL COURSE OFFERINGS

HEALTH & PHYSICAL EDUCATION  7300
Grade 9  1 Credit
In this course, health units include the study of disease, consumer and environmental health issues, and Family Life Education. In addition, students will be trained in emergency first aid, cardiopulmonary resuscitation, and the use of automated external defibrillators. Physical education units include instruction in physical fitness and conditioning, individual and dual sports, and team sports.

NAVAL SCIENCE I (NJROTC)  79132
NAVAL SCIENCE I (NNDCC)  78133
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/NNDCC 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.
NOTE: Enrollment in this course fulfills the Health & PE 9 requirement for NJROTC and NNDCC students.

HEALTH, DRIVER EDUCATION & PHYSICAL EDUCATION  7405
Grade 10  1 Credit
This course is divided among classroom health, classroom driver education, and physical education. The health curriculum includes Family Life Education. The physical education curriculum includes the study of physical fitness, Virginia’s standards for physical education are grouped into five strands: skilled movement, movement principles and concepts, personal fitness, responsible behaviors and physically active lifestyle.
individual and dual sports, and team sports. Driver education focuses on classroom instruction.  
Prerequisite: Health & PE 9 or permission of the principal

PHYSICAL EDUCATION A 75101  
PHYSICAL EDUCATION B 75102  
Grade 11  .5 Credit Each

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

PHYSICAL EDUCATION A 76101  
PHYSICAL EDUCATION B 76102  
Grade 12  .5 Credit Each

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

History/Social Science

Students must earn a minimum of four credits, with two verified, in History/Social Science to earn an Advanced Studies Diploma.

Students must earn a minimum of three credits, with one verified, in History/Social Science to earn a Standard Diploma.

The history and social science academic disciplines develop students’ knowledge and skills of history, geography, civics and economics and enables students to place the people, ideas and events that have shaped our state, our nation and the world. Students will understand chronological thinking and the connections between causes and effects and between continuity and change.

History/Social Science Course Offerings & Suggested Sequences

- United States History to 1865 (6)
- US History II: 1865 to the Present (7)
- Civics & Economics (8)
- World History I
- World History II
- Virginia & US History
- Virginia & US Government  
- *AP Human Geography
- *AP European History
- *AP US History
- *AP US Government & Politics

History/Social Science Electives (Grades 9-12)

- Sociology: Aspects & Tools of Culture (10-12)
- Sociology: Institutions & Issues (10-12)
- Psychology
- *AP Human Geography
- *AP European History
- *AP Psychology
- Directed Study History/Social Science

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

**UNITED STATES HISTORY II: 2354**

**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.

**CIVICS AND ECONOMICS 2357**

Grade 8  
Year

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

**HIGH SCHOOL COURSE OFFERINGS**

**WORLD HISTORY I 2215**

Grade 9  
1 Credit

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

**WORLD GEOGRAPHY V2210**

Grades 9-10  
1 Credit

Students study the world’s people, places, and environments, with an emphasis on world regions. The course focuses on the world’s population, cultural characteristics, landforms and climate, economic development, and migration and settlement patterns. Using geographic resources, students will employ inquiry, research, and technological skills to ask and answer geographic questions and to apply geographic concepts and skills to their daily lives.

**AP HUMAN GEOGRAPHY 2212**

Grades 9-12  
1 Weighted Credit

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

**AP EUROPEAN HISTORY 2399**

Grade 10-12  
1 Weighted Credit

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. Students taking this course are encouraged to take the AP Exam.

**NOTE: Summer assignments are required.**

**Prerequisite: Recommendation from World History I teacher and English teacher with a suggested grade of “B” or better in World History I**

**AP PSYCHOLOGY 2902**

Grade 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. Students taking this course are encouraged to take the AP Exam.

**NOTE: Summer assignments are required.**

**AP WORLD HISTORY V2380**

Grades 10-12  
1 Weighted Credit

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

**NOTE: Summer assignments are required**

**Prerequisite: Recommendation from the previous history teacher and an overall “B” average in related history courses.**
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.

SOCIOMETRY: ASPECTS & TOOLS OF CULTURE
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.

SOCIOMETRY: INSTITUTIONS & ISSUES
Grades 10-12  .5 Credit
This course provides an analysis of the methods society uses in working with individuals, social groups, and the total population with an emphasis on the role of the media as a pacesetter for contemporary American life.

AP UNITED STATES HISTORY
Grade 11 1 Weighted Credit
This course is designed to provide advanced studies in the history of the United States while preparing the student to take the AP Exam. Research writing and historical interpretive essay writing are incorporated. Extensive non-textbook reading is an integral part of the course. Students taking this course are encouraged to take the AP Exam.

NOTE: Summer assignments are required.
Prerequisite: Recommendation from World History II teacher and English teacher with a suggested grade of “B” or better in World History II

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.

AP GOVERNMENT & POLITICS: COMPARATIVE
Grades 11-12 1 Weighted Credit
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. China, Great Britain, Mexico, Nigeria, and Russia form the core of this course. Also, Iran will be included as time allows. Students taking this course are encouraged to take the AP Exam.

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

AP MICRO ECONOMICS
Grades 11-12 .5 Weighted Credit
Students study 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. This course prepares students for the AP Exam and for further study in business, history, and political science. Students taking this course are encouraged to take the AP Exam.

AP MACRO ECONOMICS
Grades 11-12 .5 Weighted Credit
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. Students will examine how individuals, institutions and influences affect people, and how those factors can impact employment rates, government spending, inflation, taxes and production. This course prepares students for the AP Exam and for further study in business, political science and history. Students taking this course are encouraged to take the AP Exam.

DIRECTED STUDY
HISTORY/SOCIAL SCIENCE
Grades 11-12 .5 Credit
This is a structured, guided independent study of history/social science. (May be continued.)

AP UNITED STATES GOVERNMENT & POLITICS
Grade 12 1 Credit
This course provides advanced studies in United States government while preparing students to take the AP 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. Students taking this course are encouraged to take the AP Exam.

NOTE: Summer assignments are required.
Prerequisite: Recommendation from AP U.S. History teacher and English teacher with a suggested grade of “B” or better in AP U.S. History or an “A” in Virginia & U.S. History (This prerequisite does not apply to IB students.)
Students must earn a minimum of four credits, with two verified, in Mathematics to earn an Advanced Studies Diploma.

Students must earn a minimum of three credits, with one verified, in Mathematics to earn a Standard Diploma.

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

Any two math courses for which prerequisites have been met may be taken concurrently only with teacher/administrator approval.

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.

**Mathematics Course Offerings & Suggested Sequences**

**Mathematics Electives (Grades 9-12)**

- Computer Mathematics
- Algebra III
- Trigonometry
- Probability & Statistics
- Calculus
- Algebra, Functions, & Data Analysis (AFDA)
- *AP Statistics
- *AP Calculus AB
- *AP Calculus BC
- *AP Computer Science A
- Directed Study Mathematics
- Discrete Mathematics
- Governor’s School for Science & Technology
MIDDLE SCHOOL COURSE OFFERINGS

FOUNDATIONS OF ALGEBRA 31106
Grade 6 Year
This course combines Foundations of Algebra Parts I and II content in preparation for Algebra I, addressing both the sixth and seventh grade Standards of Learning in the areas of number sense, computation, estimation, measurement, geometry, probability, statistics, patterns, functions, and algebra.

Prerequisite: Recommendation from previous mathematics teacher with a suggested grade of “A” in fifth grade mathematics, a passing score on the fourth and fifth grade Mathematics SOL Assessments.

FOUNDATIONS OF ALGEBRA: PART I 3110
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 sixth grade math Standards of Learning in the areas of number sense, computation, estimation, measurement, geometry, probability, statistics, patterns, functions, and algebra.

FOUNDATIONS OF ALGEBRA: PART II 3111
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 seventh grade math Standards of Learning in the areas of number sense, computation, estimation, measurement, geometry, probability, statistics, patterns, functions, and algebra.

ALGEBRA IA 31301
ALGEBRA IB 31302
Grades 7-8 .5 Credit Each
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.

Prerequisite for Algebra IB: Algebra IA

FOUNDATIONS OF ALGEBRA: PART III 3112
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 eighth grade math Standards of Learning for middle school in the areas of number sense, computation, estimation, measurement, geometry, probability, statistics, patterns, functions, and algebra.

ADVANCED GEOMETRY 31433
Grade 8 1 Weighted Credit
The content of this course offers a study of plane, three-dimensional, and coordinate geometry. Methods of justification of theorems include: paragraph proofs, flow charts, two-column proofs, indirect proofs, coordinate proofs, and verbal arguments. Emphasis is on two-dimensional and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. This course provides the foundation for students to pursue a sequence of advanced mathematical studies from Algebra II/Trigonometry to Mathematical analysis to AP Calculus.

Prerequisite: Algebra IA & IB

HIGH SCHOOL COURSE OFFERINGS

ALGEBRA IA 31301
ALGEBRA IB 31302
Grades 9-12 .5 Credit Each
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.

Prerequisite for Algebra IB: Algebra IA

ALGEBRA I 3130
Grades 9-12 1 Credit
This course studies 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.

Co-requisite (BHS,GHS,THS,YHS): Algebra I Math Lab Elective

Prerequisite (YRA): Algebra I Math Lab Elective

ALGEBRA I MATH LAB ELECTIVE 32003
Grades 9-12 1 Elective Credit
Students who need additional time to master the algebraic concepts required in Algebra I are enrolled in this course upon enrollment in Algebra I (3130). This course counts as an elective credit but not as a math required credit.

ALGEBRA II (YRA) 3135
Grades 9-12 1 Credit
The content of this course provides a thorough treatment of advanced algebraic concepts through the study of functions, polynomials, rational expressions, complex numbers, matrices, sequences, and series. Emphasis is placed on practical applications and modeling. This course also includes graphing functions.

Prerequisite: Algebra I
ALGEBRA IIA  31351
ALGEBRA IIB  31352
Grades 9-12  .5 Credit Each
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.
**Prerequisite for Algebra IIA: Algebra I**
**Prerequisite for Algebra IIB: Algebra IIA**

ADVANCED GEOMETRY  31433
Grades 9-10  1 Weighted Credit
The content of this course offers a study of plane, three-
dimensional, and coordinate geometry. Methods of
justification of theorems include: paragraph proofs, flow
charts, two-column proofs, indirect proofs, coordinate
proofs, and verbal arguments. Emphasis is on two-
dimensional and three-dimensional reasoning skills,
coordinate and transformational geometry, and the use of
dimensional and coordinate models to solve problems.
**Prerequisite: Algebra IA & IB**

ALGEBRA II/TRIGONOMETRY  3137
Grades 9-12  1 Weighted Credit
This course combines the content of Algebra II and
Trigonometry and is taught at an accelerated pace. It
provides the foundation for students to pursue a sequence of advanced mathematical studies from Algebra
II/Trigonometry to Mathematical analysis to AP Calculus.
**Prerequisite: Algebra IA & Geometry or Advanced Geometry and recommendation from math teacher.**

COMPUTER MATHEMATICS  3184
Grades 9-12  1 Credit
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.
**Prerequisite: Algebra I**

GEOMETRY (YRA)  3143
Grades 9-12  1 Credit
The content of this course offers a study of plane, three-
dimensional, and coordinate geometry. Methods of
justification of theorems include: paragraph proofs, flow
charts, two-column proofs, indirect proofs, coordinate
proofs, and verbal arguments. The courses emphasize two-
dimensional and three-dimensional reasoning skills,
coordinate and transformational geometry, and the use of
dimensional and coordinate models to solve problems.

GEOMETRY A  31431
GEOMETRY B  31432
Grades 9-12  .5 Credit Each
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
dimensional and coordinate models to solve problems.
**Prerequisite for Geometry A: Algebra I**
**Prerequisite for Geometry B: Geometry A**

TRIGONOMETRY AND FUNCTIONS  3163
Grades 9-12  1 Credit
This course provides a thorough treatment of trigonometry
through the study of trigonometric definitions, applications,
graphing, and solving trigonometric equations and inequalities. Emphasis is placed on using connections
between right triangle ratios, trigonometric functions,
circular functions, the language of mathematics, logic of
procedure, and interpretations of results. Applications and
modeling are included. In addition, 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.
**Prerequisite: Geometry and Algebra I**

ALGEBRA III  31602
Grades 10-12  .5 Credit
This course explores algebra topics that are not covered in
the Algebra II curriculum. Topics studied include analytic
gometry, 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 exams.
**Prerequisite: Geometry or Advanced Geometry & Algebra II or Algebra II/Trigonometry**

ALGEBRA, FUNCTIONS AND DATA ANALYSIS (AFDA)  3134
Grades 10-12  1 Credit
Within the context of mathematical modeling and data
analysis, students will study functions and their behaviors,
systems of inequalities, probability, experimental design
and implementations, and analysis of data. Data will be
generated by practical applications arising from science,
business, and finance. Students will solve problems that
require the formulations of linear, quadratic, exponential,
of logarithmic equations or a system of equations.
**NOTE: Course must be taken in sequence for math credit.**
**Prerequisite: Algebra I**

AP CALCULUS AB  31771
Grades 10-12  1 Weighted Credit
This course is designed to prepare students for the AP Calculus AB exam. Content is centered on properties of elementary functions, limits, and integral and differential calculus. A rigorous treatment of calculus theory and application is presented. Students taking this course are encouraged to take the AP Exam. This course may not be taken concurrently with AP Calculus BC.

**NOTE:** Summer assignments are required.

**Prerequisite:** Mathematical Analysis

**AP CALCULUS BC**

Grades 10-12 1 Weighted Credit

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

**NOTE:** Summer assignments are required.

**Prerequisite:** Mathematical Analysis

**AP STATISTICS**

Grades 10-12 1 Weighted Credit

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

**NOTE:** Summer assignments are required.

**Prerequisite:** Trigonometry

**CALCULUS**

Grades 10-12 1 Credit

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.

**Prerequisite:** Mathematical Analysis

**DISCRETE MATHEMATICS**

Grades 10-12 .5 Credit

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

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

**MATHEMATICAL ANALYSIS**

Grades 10-12 1 Weighted Credit

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 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.

**Prerequisite:** Geometry or Advanced Geometry and Algebra II/Trigonometry or Algebra II and Trigonometry. Recommendation from math teacher with a suggested grade of “A” or “B” in Algebra II or Algebra II/Trigonometry.

**PROBABILITY & STATISTICS**

Grades 10-12 .5 Credit

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

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

**PROBABILITY & STATISTICS WITH DISCRETE MATHEMATICS (YRA)**

Grades 10-12 1 Credit

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

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

**TRIGONOMETRY**

Grades 10-12 .5 Credit

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

**Prerequisite:** Geometry & Algebra II

**PERSONAL LIVING AND FINANCE**

Grades 10-12 1 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.

**NOTE:** This course fulfills a math diploma requirement for students seeking the Modified Standard Diploma ONLY. Other students may take this course for elective credit.

**Prerequisite:** Algebra I
Secondary Program of Studies

Students must earn a minimum of four credits, with two verified, in Science to earn an **Advanced Studies Diploma**. They must take courses in at least three different disciplines.

Students must earn a minimum of three credits, with one verified, in Science to earn a **Standard Diploma**. They must take courses in at least two different disciplines.

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### Science Course Offerings and Suggested Sequences

<table>
<thead>
<tr>
<th>Science 6</th>
<th>Life Science 7</th>
<th>Physical Science 8</th>
<th>Earth Science</th>
<th>Biology I</th>
<th>Chemistry I</th>
<th>Physics I</th>
<th>Science Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Direct Science</strong></td>
<td><strong>Biology</strong></td>
<td><strong>Chemistry</strong></td>
<td><strong>Physics</strong></td>
<td><strong>Science Elective</strong></td>
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</tbody>
</table>

**Science Electives (Grades 9-12)**

- Directed Study Science
- *AP Physics I
- *AP Biology
- *AP Chemistry
- *AP Environmental Science
- Atmospheric Science & Climatology
- Ecology and Environmental Science
- *Biology II/Mammalian Anatomy & Physiology
- *Biology II/ Marine Science
- Governor’s School for Science & Technology

*Weighted Course

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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.)

**SENIOR MATHEMATICS** 3136

Grade 12 1 Credit

This course is designed for college-bound seniors to provide added mathematics 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.

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Secondary science courses play an important, unique and essential role in today's ever changing world. Student's knowledge of earth, space, life and physical sciences is critical as they become scientifically literate citizens. All science courses are laboratory and activity-oriented to help develop important skills.
### MIDDLE SCHOOL COURSE OFFERINGS

<table>
<thead>
<tr>
<th></th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SCIENCE 6</strong></td>
<td>4105</td>
</tr>
<tr>
<td>Grade 6</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
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</tbody>
</table>

| **LIFE SCIENCE 7**      | 4115  |
| Grade 7                 |       |
| This introductory biology course is designed to introduce students to the scientific method of inquiry. Hands-on experiences with microscopes and other laboratory equipment enable students to study single and multi-celled organisms and their interrelationships. |

| **INTRODUCTION TO FORENSIC SCIENCE** | 98269 |
| Grades 7-8               |       |
| 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. |

### HIGH SCHOOL COURSE OFFERINGS

<table>
<thead>
<tr>
<th></th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BIOLOGY I</strong></td>
<td>4310</td>
</tr>
<tr>
<td>Grades 9-12</td>
<td>1 Credit</td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

| **EARTH SCIENCE**       | 4210  |
| Grades 9-12             | 1 Credit |
| Major topics of study in this course include: plate tectonics, the rock cycle, earth history, the oceans, the atmosphere, weather and climate, the solar system, and the universe. Course objectives connect the study of the earth’s composition, structure, processes, and history; its atmosphere, freshwater, and oceans; and its environment in space. Historical contributions in the development of scientific thought about the earth and space are emphasized. The interpretation of maps, charts, tables, and profiles; the use of technology to collect, analyze, and report data; and science skills in systematic investigation are stressed. Application, problem solving, and decision-making are an integral part of the science standards, especially as they relate to the costs and benefits of utilizing the Earth’s resources. |

| **ATMOSPHERIC SCIENCE & CLIMATOLOGY** | 4220 |
| Grades 10-12             | 1 Credit |
| This course provides a study of atmospheric systems and global climate. Major topics include: changes in atmospheric composition over time, interaction between the oceans and the atmosphere, weather, climate and climate change, and current environmental issues such as global warming and ozone depletion. Learning experiences at (or in cooperation with) NASA Langley may be included. **NOTE:** Students enrolled in this course who have not previously taken the Earth Science SOL test must take this test. |

| **ENGINEERING DESIGN & PROBLEM SOLVING** | 982806 |
| Grades 7-8               | Semester |
| This class exposes students to engineering-related careers through hands-on science, technology, engineering, and math activities which emphasize the engineering design process and incorporate the 21st century skills. |

| **PHYSICAL SCIENCE 8**   | 4125  |
| Grade 8                 | Year |
| This introductory course to physics and chemistry explores concepts such as motion, light, sound, energy, and matter. Hands-on laboratory experiences are emphasized. |

| **CHEMISTRY I**          | 4410  |
| Grades 10-12             | 1 Credit |
| This course is designed to provide a detailed understanding of the interaction of matter and energy. This interaction is investigated through laboratory techniques, manipulation of chemical qualities, and problem solving applications. Scientific methodology is employed in experimental and analytical investigations, and concepts are illustrated with practical applications. Technology, including probeware, graphing calculators and computers, is used where appropriate. Students understand and use safety precautions with chemicals and equipment. Course objectives emphasize qualitative and quantitative study of substances and the changes that occur in them. Students are encouraged to share their ideas, use the language of chemistry, discuss problem-solving techniques, and communicate effectively. **Prerequisite:** Grade of “C” or better in Algebra I and one year of another lab science |

| **ECOLOGY & ENVIRONMENTAL SCIENCE** | 4340 |
| Grades 10-12             | 1 Credit |
| This applications lab science course teaches the relationship between people and their environment. The course stresses the significance of ecosystems, food, water, air, soil, mineral, and energy resources. Laboratory experiences provide a study of air, soil, and water pollution; food webs; endangered animals and habitats; energy sources; and recycling. |
Prerequisite: Biology I

AP BIOLOGY 4370
Grades 11-12 1 Weighted Credit
This course is designed to prepare students for the AP Biology exam and to meet the objectives of general biology courses at the college level. A series of a minimum of eight (8) required experiments for the AP Exam are conducted along with additional lab experiences. Students taking this course are encouraged to take the AP Exam.
NOTE: Summer assignments are required.
Prerequisite: Biology I & Chemistry I

AP CHEMISTRY 4470
Grades 11-12 1 Weighted Credit
This course is designed to acquaint the student who has successfully completed Chemistry I with additional concepts covered in general college chemistry courses. Sufficient laboratory experiences are offered to reinforce classroom material, familiarize the student with equipment and chemicals, develop laboratory skills and techniques, and to observe, interpret, and draw conclusions. Students taking this course are encouraged to take the AP Exam.
NOTE: Summer assignments are required.
Prerequisite: Chemistry I; Recommendation from science teacher with a suggested grade of “B” or better in Chemistry I

AP ENVIRONMENTAL SCIENCE 42701
Grades 11-12 1 Weighted Credit
The goal of the course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Students taking this course are encouraged to take the AP Exam.
Prerequisite: 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.

AP PHYSICS I 4570
Grades 11-12 1 Weighted Credit
This course provides a systematic introduction to Newtonian mechanics, work, energy and power; mechanical waves and sound. It emphasizes the development of conceptual understanding and problem-solving ability using algebra and trigonometry. The course content is equivalent to a first-semester college course in algebra-based physics. Students taking this course are encouraged to take the AP Exam.
Prerequisite: Algebra II/Trigonometry or Trigonometry

AP PHYSICS II 4571
Grades 11-12 1 Credit
This course cultivates student understanding of physics through inquiry-based investigations as they explore the principles of fluids, thermodynamics, electricity, magnetism, optics, and topics in modern physics. It emphasizes the continued development of conceptual understanding and problem-solving ability using algebra and trigonometry. The course content is equivalent to a second-semester college course in algebra-based physics. Students taking this course are encouraged to take the AP Exam.
Prerequisite: AP Physics I

BIOLOGY II/MAMMALIAN 4330
ANATOMY & PHYSIOLOGY
Grades 11-12 1 Weighted Credit
This course is designed to acquaint the student with the anatomy and physiology of the vertebrate, using the cat as a representative animal for dissection.
Prerequisite: Biology I

BIOLOGY II/MARINE SCIENCE 4320
Grades 11-12 1 Weighted Credit
This course offers a study of the physical, geological, and chemical characteristics of the oceans of the world as well as a survey of the marine life of the mid-Atlantic region. Representative organisms are dissected.
Prerequisite: Biology I

DIRECTED STUDY SCIENCE 46104
46105
Grades 11-12 .5 Credit
This course provides in-depth science study. Content is determined by staff. (May be continued.)

PHYSICS I 45101
Grades 11-12 1 Credit
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.
Co-requisite: Algebra II/Trigonometry or Trigonometry or Mathematical Analysis
Special Education

Courses listed within this section are available to all students who meet state eligibility criteria for special education services and are being served on an Individualized Education Program (IEP). This continuum includes specially designed instruction, accommodations, and related services in general education, special education and/or community environments.

Students receiving special education services who are enrolled in general education courses may require accommodations and/or modifications to fully access the curriculum. The modifications and appropriate designations are determined by the IEP team and documented on the student’s IEP.

### MIDDLE SCHOOL COURSE OFFERINGS

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Grades</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACADEMIC LAB</td>
<td>7896</td>
<td>6-8</td>
<td>Semester</td>
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<tr>
<td></td>
<td>78961</td>
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<tr>
<td></td>
<td>78962</td>
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</tbody>
</table>

These courses are designed to provide specialized instruction in basic skill areas using innovative teaching strategies and an individualized approach as outlined on the student’s IEP. In addition to academic skills, social and transition skills are addressed. (May be repeated)

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Grades</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLIED ENGLISH</td>
<td>00K810</td>
<td>6-8</td>
<td>Year</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Grades</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLIED HISTORY/SOCIAL SCIENCE</td>
<td>00K850</td>
<td>6-8</td>
<td>Year</td>
</tr>
</tbody>
</table>

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 student’s IEP. This course may be offered in a pull-out setting or in a general education setting. (May be continued.)

### HIGH SCHOOL COURSE OFFERINGS

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Grades</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACADEMIC LAB</td>
<td>78964</td>
<td>9-12</td>
<td>.5 Credit</td>
</tr>
<tr>
<td></td>
<td>78965</td>
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</tbody>
</table>

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 IEP. In addition to academic skills, social and transition skills are addressed.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Grades</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALGEBRA I MATH LAB</td>
<td>31303</td>
<td>9-12</td>
<td>1 Credit</td>
</tr>
</tbody>
</table>

This course is offered to students enrolled in Algebra I who qualify and meet the requirements for Credit Accommodations.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Grades</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSINESS-INDIVIDUALIZED EDUCATION PROGRAM</td>
<td>7888</td>
<td>9-12</td>
<td>Varies</td>
</tr>
</tbody>
</table>

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 IEP.
Course length is determined by the student’s needs and job requirements.

**PRACTICAL ENGLISH** 1516
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 IEP. This course may be offered in a pull-out setting or in a general education setting. (May be continued.)

**PRACTICAL HISTORY/SOCIAL SCIENCE** 2998
Grades 9-12  Year
This individualized instructional course for identified students with disabilities is designed to develop, strengthen, or reinforce basic adaptive skill areas as outlined on the student’s IEP. This course may be offered in a pull-out setting or in a general education setting. (May be continued.)

**PRACTICAL LIFE SKILLS** 78963
Grades 9-12  Year
This individualized instructional course is designed to develop, strengthen, or reinforce basic adaptive skill areas as outlined on the student’s IEP. This course may be offered in a pull-out setting or in a general education setting. (May be continued.)

**PRACTICAL MATH** 3201
Grades 9-12  Year
This is an individualized instructional course of basic mathematical concepts needed for independent living as outlined on the student’s IEP. This course may be offered in a pull-out setting or in a general education setting. (May be continued.)

**NOTE:** Practical Math does not count as a mathematics credit for a Standard or a Modified Standard Diploma.

**PRACTICAL SCIENCE** 4612
Grades 9-12  Year
This individualized instructional course for identified students with disabilities is designed to develop, strengthen, or reinforce basic adaptive skill areas as outlined on the student’s IEP. This course may be offered in a pull-out setting or in a general education setting. (May be continued.)

**PRE-VOCATIONAL SKILLS** 78981
Grades 9-12  Year
This individualized instructional course of work adjustment and other skills needed for career awareness and job placement for identified students with disabilities is designed to teach/reinforce work adjustment as outlined on the student’s IEP. This course may be offered in a pull-out setting or in a general education setting. (May be continued.)

**PROJECT EXPLORE** 78982
Grades 9-10  Year
This course is designed as an introductory course for students with disabilities to assist in understanding, changing and improving specific work behaviors that will 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.

**PROJECT EXPERIENCE** 78983
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.

**PROJECT SEARCH** 78984
Grade PG  Year
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.
Students must earn a minimum of three credits in World Languages to earn an Advanced Studies Diploma. Credits must include three years of one language or two years of two languages.

Students must earn a minimum of two credits in the areas of World Languages, Fine Arts, or Career/Technology Education to earn a Standard Diploma. At least one of the credits must be in Fine Arts or Career/Technical Education.

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

**NOTE:** Latin I-IV and German I-IV will be offered virtually beginning in grade 8 for students who do not have Latin or German courses available in their high schools.

### MIDDLE SCHOOL COURSE OFFERINGS

#### EXPLORATORY WORLD LANGUAGES/WORLD CULTURES 57001
**Grade 6**  
Quarter  
This course introduces the languages, cultures, and customs of a variety of countries from around the world.

#### EXPLORATORY FRENCH & SPANISH 6 57002
**Grade 6**  
Quarter  
This course provides an introduction to the French and Spanish culture and languages.

#### ESL RIGOR 11084
**Grades 6-8**  
1 Credit  
The course provides middle school English Language Learners with strategies and skills to build academic vocabulary, comprehension, and content knowledge through reading and analyzing a variety of non-fiction texts. This course may be repeated.

#### EXPLORATORY WORLD LANGUAGES 57003
**Grades 7-8**  
Semester  
This course provides an introduction to the cultural heritage and beginning conversational skills in French and Spanish.

#### SURVEY OF WORLD LANGUAGES 5700
**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 chat and virtual whiteboard components.

#### FRENCH I 5110
**Grades 7-8**  
1 Credit  
Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students learn basic skills in listening, speaking, reading and writing with an emphasis on the ability to communicate orally and in writing in various social and academic settings.

#### SPANISH I 5510
**Grades 7-8**  
1 Credit  
Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students learn basic skills in listening, speaking, reading and writing with an emphasis on the ability to communicate orally and in writing in various social and academic settings.

#### FRENCH II 5120
**Grades 7-8**  
1 Credit  
Students continue to develop proficiency in all four language skills: listening, speaking, reading, and writing, with emphasis on the ability to communicate orally and in various social and academic settings. Emphasis is placed on real-life situations, reading materials, and producing short writings using more complex sentences and language structures within the cultural context of home life, student life, leisure time, vacation, and travel.

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

#### ARABIC I 5010
**Grades 7-8**  
1 Credit  
Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students learn basic skills in listening, speaking, reading and writing with an emphasis on the ability to communicate orally and in writing in various social and academic settings.

#### GERMAN I 5210
**Grades 7-8**  
1 Credit  
Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students learn basic skills in listening, speaking, reading and writing with an emphasis on the ability to communicate orally and in writing in various social and academic settings.

#### MANDARIN CHINESE I 5810
**Grades 7-8**  
1 Credit  
Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. Students learn basic skills in listening, speaking, reading and writing with an emphasis on the ability to communicate orally and in writing in various social and academic settings.

#### LATIN I 5310
**Grades 7-8**  
1 Credit  
Level I Latin is a study of grammatical patterns and vocabulary with introductory translation of Latin stories.
### HIGH SCHOOL COURSE OFFERINGS

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH AS A WORLD LANGUAGE I 5710</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grades 9-12</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>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 within the context of home life, student life, leisure time, and post-secondary endeavors.</td>
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</tr>
<tr>
<td>ESL RIGOR 15153</td>
<td></td>
<td>1</td>
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<tr>
<td>Grades 9-12</td>
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<td>1</td>
</tr>
<tr>
<td>The course provides high school English Language Learners with strategies and skills to build academic vocabulary, comprehension, and content knowledge through reading and analyzing a variety of non-fiction texts. This course may be repeated.</td>
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<tr>
<td>GERMAN I 5210</td>
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<td>1</td>
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<tr>
<td>FRENCH I 5110</td>
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<td>1</td>
</tr>
<tr>
<td>SPANISH I 5510</td>
<td></td>
<td>1</td>
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<tr>
<td>ARABIC I V5010</td>
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<td>1</td>
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<tr>
<td>MANDARIN CHINESE I V5810</td>
<td></td>
<td>1</td>
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<tr>
<td>Grades 9-12</td>
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</tr>
<tr>
<td>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.</td>
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<td></td>
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<tr>
<td>LATIN I 5310</td>
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<td>1</td>
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<tr>
<td>Grades 9-12</td>
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</tr>
<tr>
<td>Level I Latin is a study of grammatical patterns and vocabulary with introductory translation of Latin stories.</td>
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<tr>
<td>GERMAN II 5220</td>
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<td>1</td>
</tr>
<tr>
<td>FRENCH II 5120</td>
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<tr>
<td>SPANISH II 5520</td>
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<td>1</td>
</tr>
<tr>
<td>ARABIC II V5020</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>MANDARIN CHINESE II V5820</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Grades 9-12</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Students continue to develop proficiency in all four language skills: listening, speaking, reading, and writing, with an emphasis on the ability to communicate orally and in writing in various social and academic settings.</td>
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</tr>
<tr>
<td>LATIN II 5320</td>
<td></td>
<td>1</td>
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<tr>
<td>Grades 9-12</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Level II Latin emphasizes grammatical patterns and vocabulary with the translation of Latin stories at an intermediate level of difficulty.</td>
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<tr>
<td>FRENCH III 5130</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>SPANISH III 5530</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Grades 9-12</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Students continue to develop proficiency in all four language skills: listening, speaking, reading, and writing, with an emphasis on the ability to communicate orally and in writing at a higher level with minimal use of English in the classroom. Emphasis is on communication using more complex sentences and language structures within the context of home life, student life, leisure time, vacation and travel.</td>
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<tr>
<td>FRENCH IV 5140</td>
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<td>1</td>
</tr>
<tr>
<td>SPANISH IV 5540</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Grades 10-12</td>
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<td>1</td>
</tr>
<tr>
<td>Students continue to develop proficiency in all four language skills: listening, speaking, reading, and writing, with an emphasis on the ability to interact orally and in writing. They communicate on a variety of topics using more complex language structures. At this level, students comprehend the main ideas of authentic materials and are able to develop original written materials on</td>
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</tbody>
</table>
familiar topics. Students gain a deeper understanding of cultural perspectives, practices, and products.

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

**GERMAN IV**

<table>
<thead>
<tr>
<th>Code</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>5240</td>
<td>1 Weighted</td>
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</tbody>
</table>

**MANDARIN CHINESE IV**

<table>
<thead>
<tr>
<th>Code</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>5570</td>
<td>1 Weighted</td>
</tr>
</tbody>
</table>

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

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

**LATIN IV**

<table>
<thead>
<tr>
<th>Code</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>5340</td>
<td>1 Weighted</td>
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</tbody>
</table>

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

**Prerequisite: Latin III**

**AP FRENCH LANGUAGE**

<table>
<thead>
<tr>
<th>Code</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>5170</td>
<td>1 Weighted</td>
</tr>
</tbody>
</table>

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

**NOTE: Summer assignments are required.**

**Prerequisite: French IV/Teacher Recommendation**

**AP SPANISH LANGUAGE**

<table>
<thead>
<tr>
<th>Code</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>5570</td>
<td>1 Weighted</td>
</tr>
</tbody>
</table>

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

**NOTE: Summer assignments are required.**

**Prerequisite: Mandarin Chinese IV/Teacher Recommendation**

**AP LATIN LITERATURE**

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<th>Code</th>
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<tr>
<td>5380</td>
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This course is designed to prepare students to take the AP 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 AP 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 encouraged to take the AP Exam.

**NOTE: Summer assignments are required.**

**Prerequisite: Latin III**

**AP CHINESE LANGUAGE AND CULTURE**

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<tbody>
<tr>
<td>5860</td>
<td>1 Weighted</td>
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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 cultures. The primary language spoken at this level is Chinese. 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 encouraged to take the AP Exam.

**NOTE: Summer assignments are required.**

**Prerequisite: Mandarin Chinese IV/Teacher Recommendation**

**DIRECTED STUDY FRENCH**

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<th>Code</th>
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<tr>
<td>51051</td>
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**DIRECTED STUDY GERMAN**

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<tr>
<td>51052</td>
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**DIRECTED STUDY LATIN**

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<td>53051</td>
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**DIRECTED STUDY SPANISH**

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<tr>
<td>55051</td>
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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.)
The Governor’s School for Science and Technology (GSST) at New Horizons Regional Education Center is operated by Gloucester, Hampton, Newport News, Poquoson, Williamsburg-James City County, and York County Schools. Students enrolled in the program select one of three academic strands as their focus for their Governor’s School experience. Each strand provides a unique emphasis on both the science subject matter and associated career fields. In addition, each strand will foster research through a Research Methods and Ethics course the junior year and an Honors Research and Mentorship placement the senior year.

**Engineering Strand**
The Engineering Strand involves an intense, rigorous study of fundamental principles of engineering and calculus-based physics.

**Biological Science Strand**
The Biological Science Strand provides insights into organic and inorganic chemistry, cell and molecular biology, genetics, and the diversity and physiology of organisms.

**Computational Science & Engineering Strand**
The Computation Science & Engineering Strand builds conceptual knowledge and problem solving skills in the areas of software development, modeling and simulation of discrete and continuous systems and topics in non-calculus based physics.

**Spanish Conversation and Culture 5505**
Grade 12 1 Weighted Credit
This course is designed to maintain and enhance the students’ communicative skills and knowledge of Spanish and Hispanic cultures. Students develop more advanced communication skills in all four areas: listening, speaking, reading and writing, with an emphasis on the ability to interact orally. Students continue to use more complex language structures and express abstract ideas with reasonable fluency. At this level students will gain greater insight into culture through literature and other advanced reading. Emphasis is placed on current events and increasing cultural understanding and knowledge. There is an emphasis on community and global involvement with the language, including outreach activities. The primary language spoken at this level is Spanish. 

**Prerequisite: AP Spanish**

**Governor’s School for Science & Technology (GSST)**

**Engineering Strand Courses**

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<th>Grade 11</th>
<th>Grade 12</th>
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**Biological Science Strand**

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<th>Grade 11</th>
<th>Grade 12</th>
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<tbody>
<tr>
<td>Advanced Chemical Analysis Research Methodology &amp; Ethics Modern Pre-Calculus/Calculus</td>
<td>Advanced Biological Analysis Differential Equations &amp; Math Methods in Physics Environmental Science: Honors Research/ Mentorship Calculus, Multi-Variable Linear Algebra or Statistics</td>
</tr>
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**Computational Science & Engineering Strand**

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<th>Grade 11</th>
<th>Grade 12</th>
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<tr>
<td>Computational Science Research Methodology &amp; Ethics Modern Pre-Calculus/Calculus</td>
<td>Engineering Design Innovation &amp; Entrepreneurship Environmental Science: Honors Research/ Mentorship Calculus, Multi-Variable Linear Algebra or Statistics</td>
</tr>
</tbody>
</table>
This course focuses on the fundamental principles and laws of chemistry. Extensive laboratory work and problem solving will serve as the basic tools for students to explore chemistry topics. The course will provide insights into organic and inorganic chemistry. The students will explore advanced concepts such as kinetics, acid/base chemistry, equilibrium, thermochemistry and electrochemistry. The course will emphasize problem solving through chemical calculations.

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

**COLLEGE CALCULUS**

This course covers 2 semesters of university-level calculus for scientists and engineers, emphasizing understanding and application. The first semester covers limits and continuity of functions, techniques and applications of differentiation, and introduces integration. The second semester covers applications and advanced techniques of integration, differential equations, sequences and series, and analytical geometry. Upon completion of this course, student will understand both the geometric and rate of change analyses of differential and integral calculus. Students will apply their understanding of calculus to modeling real-world situations mathematically and be able to solve those mathematical models.

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

**CALCULUS-BASED ENGINEERING PHYSICS I & II: MECHANICS TO ELECTROMAGNETISM**

This is a mathematical rigorous course that investigates the principals of classical mechanics, gravitation, periodic motion, electric and magnetic field theory, AC and DC circuit theory, geometric optics through in-depth discussion, concept development, and experimental laboratory activities. The course also develops problem solving skills which emphasize the importance of inquiry in science and integrates the overarching themes of conservation and symmetry. Laboratory experiments use apparatuses such as dynamic tracks, ballistic pendulums, and different LabPro sensors to investigate fundamental physics theories and mathematical concepts. Computer data acquisition software is utilized to collect, analyze, and graph experimental data. The course encourages hands-on activities, class participation, and students taking responsibility for their own learning. Students will be provided many opportunities throughout the course to design and carry out investigations and to analyze and evaluate data. Learning fundamental principles, generalizations, model building and learning to apply course material to improve thinking, problem solving, and decision making are essential general goals. Students gain factual knowledge and developing specific skills, competencies, and points of view needed by professionals.

**Co-requisite:** Enrollment in GSST College Calculus Course

**ENGINEERING DESIGN INNOVATION & ENTREPRENEURIALSHIP**

Learning fundamental knowledge of design innovation and science disciplines and the requisite skills to perform research, problem-solve, innovate, and create opportunities in the real world are the overarching goals of this course. The course includes also a series of project-based learning experiences to help the student acquire and apply the skills, tools, and best practices of the STEM profession. Learning tools include, for example, industry standards and research modeling and simulation software, hands-on design and troubleshooting of solid state systems, and industry standard computer-aided-design software, and additive manufacturing fabrication systems. In challenging keystone projects, students are tasked to identify real-world engineering problems or opportunities, to propose and seek client approval for their unique solutions or innovations, then to design, build, and demonstrate their final products. The keystone experiences include professional engagement with research leaders invited from community organizations such as NASA, SNAME, and the Jefferson Labs.

**Prerequisite:** Computational Science and Pre-Calculus

**COLLEGE MODERN PRE-CALCULUS**

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

**RESEARCH METHODOLOGY & ETHICS**

Students will study contemporary issues in scientific research while conducting independent research projects outside of class. Students are encouraged to select projects consistent with their strand or career goals. Course topics include research design strategies, data analysis and representation (with and without computer-assistance), norms of conduct for ethical research behavior, and the historical basis for current research regulations, among others. All students must conduct a review of the primary literature to support
their research design assumptions, prepare and present a plan of their proposed research for institutional review and approval, conduct their studies and report their findings via formal technical paper as well as oral presentation. All students present posters in our junior science symposium, judged by professionals in various fields. All students complete application materials for the Tidewater Science and Engineering Fair, and participation in this, and other fairs, is highly encouraged. This course will serve as a preparatory course for the Honor Research and Mentorship Program.

**MULTIVARIABLE CALCULUS/ LINEAR ALGEBRA**

**Grades 11-12**  1 Weighted Credit

In multivariable calculus, students extend their study of calculus from the plane into 3-dimensional space and beyond. After an initial examination of geometry and algebra of 3-space, students will use differential and integral calculus to study the nature of curves and surfaces in 3-space. Topics include linear approximations of curves and surfaces in 3-space, optimization of functions in several variables, and use of integral calculus to study area, volume, and other applications. The semester concludes with an examination of the calculus of vector fields. In linear algebra, students use matrix theory to solve systems of linear equations and apply knowledge of the determinant to describe the nature of those solutions. The algebra and applications of linear transformations will be studied in both real and general vector spaces. Students will calculate eigenvalues and eigenvectors of linear transformations and use these to diagonalize linear systems. Applications include best fit functions and solutions of systems of 1st order, linear differential equations.

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

**ADVANCED BIOLOGICAL ANALYSIS**

**Grade 12**  2 Weighted Credits

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

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

**Prerequisite:** Advanced Chemical Analysis

**CALCULUS-BASED ENGINEERING PHYSICS III**

**Grade 12**  2 Weighted Credits

Learning fundamental knowledge of engineering and physics disciplines and the requisite skills to perform research, problem-solve, innovate, and create opportunities in the real world are the overarching goals of this course. Extending the first year physics material, the course includes investigations in modern physics topics such as relativity, quantum mechanics, and nuclear physics, including, for example, conceptual understanding and practical applications of the wave function, Schrodinger’s Equation, and radiation and radioactivity. The course includes a series of project-based engineering learning experiences to help students acquire and apply the skills, tools, and best practices of the engineering profession. Learning tools include, for example, industry standard engineering and research modeling and simulation software, hands-on design and troubleshooting of solid state electronics and digital systems, and industry standard computer-aided-design software, and additive manufacturing fabrication systems. In challenging keystone projects, students are tasked with identifying real-world engineering problems or opportunities in order to propose and seek client approval for their unique solutions or innovations. Following these experiences, students will design, build, and demonstrate their final products. The keystone experiences include professional engagement with research and engineering leaders invited from community organizations such as NASA, SNAME, and Jefferson Labs.

**Prerequisite:** Engineering I & II; Physics

**DIFFERENTIAL EQUATIONS AND MATH METHODS IN PHYSICS**

**Grade 12**  1 Weighted Credit

The first semester the emphasis will be on Ordinary Differential Equations (ODE). Partial Differential Equations (PDE) at the end of the first semester and conclude the second semester by looking at modeling the four fundamental forces and other applied topics. The construction of mathematical models to address real-world problems has been one of the most important aspects of each of the branches of science. It is often the case that these mathematical models are formulated in terms of equations involving functions as well as their derivatives. Such equations are called differential equations. These differential equations are the language in which the laws of nature can be expressed. Understanding the properties of solutions of differential equations is fundamental too much of contemporary science and engineering. If only one independent variable is involved, often time, the equations
are called ordinary differential equations. The course will demonstrate the usefulness of ordinary differential equations for modeling physical and other phenomena. Complementary mathematical approaches for their solution will be presented, including analytical methods, graphical analysis and numerical techniques. This course also covers the classical partial differential equations of applied mathematics, physics, and engineering: diffusion, Laplace/Poisson, and wave equations. It also includes methods and tools for solving these PDEs, such as separation of variables, Fourier, Laplace, Legendre, Bessel series and transforms, eigenvalue problems, and Green’s functions. Emphasis during the second semester will be placed on building and modeling the fundamental forces of nature.

**Prerequisite:** Prerequisite for Differential Equations is successful completion of Multivariable Calculus/Linear Algebra and permission of the instructor.

### ENVIRONMENTAL SCIENCE:

#### Grade 11-12

**4271 RESEARCH APPLICATIONS/MENTORSHIP 4612**

In the fall semester, students integrate aspects of biology, chemistry, earth science, and physics in the study of the environment. Exploration of relationships between organisms and their biotic and abiotic environment at multiple levels of biological system hierarchy serves as the foundation for this course. Laboratory and fieldwork are integral components of the course. Students undertake field sampling for water quality and biotic components. 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. Current or on-going environmental issues and/or case histories will be emphasized. Spring semester will emphasize ecological principals from physiological ecology to ecosystem ecology. Mentorship involves students in concentrated research or project development in firms and laboratories throughout the Tidewater area. Students are supervised by mentors who are scientists, engineers, physicians and other professionals. Students plan, implement, document and present research or projects chosen in consultation with their mentors. Students refine their research and presentation techniques, problem-solving, critical thinking and leadership skills. Students gain proficiency with Minitab statistical software for presentation and analysis of data. This course provides students with an opportunity to integrate theory, knowledge, and application through a research experience.

### STATISTICAL RESEARCH METHOD

#### Grade 11-12

**3190**

This course is a comprehensive conceptual and practical presentation of probability, descriptive/inferential statistics, and the key ideas underlying statistical and quantitative reasoning. Statistical methods of organizing, summarizing, and displaying data combined with statistical testing are used to solve problems from a myriad of areas such as business, engineering, biology, and medicine. Advantages and limitations of statistical methods are developed. Graphing calculators and Minitab statistical software are extensively utilized with a project/report focus. The emphasis is on the interpretation of the statistical results rather than the mere computation. Topics include random variables, sampling, distribution families, binomial and Poisson probabilities, conditional probability, estimations, data analysis, contingency tables, frequentist and Bayesian
The International Baccalaureate (IB) Diploma Programme at York High School in grades 11 and 12 is an internationally recognized course of study. The rigorous coursework is designed to provide students with a well-rounded education and to facilitate geographic and cultural mobility.

While the International Baccalaureate (IB) Programme provides a two-year curriculum, students are encouraged to participate in Pre-Diploma classes in grades 9 and 10. IB courses are identified as SL (Standard Level), requiring a minimum of 150 instruction hours, or HL (Higher Level), requiring 240 instructional hours.

**IB DIPLOMA PROGRAMME COURSE OFFERINGS**

**GROUP 1: STUDIES IN LANGUAGE & LITERATURE**

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

**IB 1150**

**Grade 11**

1 Weighted Credit

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

**Prerequisite: Advanced English 10**

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

**IB 1160**

**Grade 12**

1 Weighted Credit

This course continues the curriculum from IB Language and Literature – English (HL) in grade 11.
GROUP 2: LANGUAGE ACQUISITION

IB CLASSICAL LANGUAGES: LATIN (SL)  IB 5330
Grade 11  1 Weighted Credit
This course continues the study of grammar and ancient culture in 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 understanding classical texts in their original language as well as appreciating these texts in their social, political, and historical contexts. The second year of this course is competed in 12th grade.

IB LANGUAGE B: FRENCH (HL)  IB 51421
IB LANGUAGE B: FRENCH (SL)  IB 5142
Grade 11  1 Weighted Credit
This course continues the study of grammar and culture of previous levels while focusing on translation of extended passages. Course expectations include a systematic study of grammar, text handling, and written assessments geared toward the successful completion of Internal Assessments and IB Examinations. Particular attention is paid to understanding classical texts in their original language as well as appreciating these texts in their social, political, and historical contexts. The second year of this course is competed in 12th grade.

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

IB LANGUAGE B: SPANISH (HL)  IB 55621
IB LANGUAGE B: SPANISH (SL)  IB 5562
Grade 12  1 Weighted Credit
This course continues the study of grammar and culture of previous levels while focusing on translation of extended passages. 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 understanding classical texts in their original language as well as appreciating these texts in their social, political, and historical contexts. The second year of this course is competed in 12th grade.

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

GROUP 3: INDIVIDUALS AND SOCIETIES

IB 20TH CENTURY WORLD HISTORY (HL)  IB 2360
Grade 11  1 Weighted Credit
This course focuses on the history of the Americas and topics in 20th century world history. United States and Latin American history are covered from the colonial period to the present. World history topics include: 20th century wars, the rise of single-party states, and the Cold War. External and internal assessments in fulfillment of the IB Diploma Programme are collected through a research study. This course also prepares students for the IB Examination in Group 3, the external assessment components. The second year of this course is competed in 12th grade.

Prerequisite: AP World History or AP European History

IB 20TH CENTURY WORLD HISTORY (HL)  IB 2361
Grade 12  1 Weighted Credit
This course continues the curriculum from IB 20th Century World History (HL) in grade 11.

Prerequisite: IB 20th Century World History
Prerequisite or Co-requisite: AP US Government and Politics

IB GEOGRAPHY (SL) IB 2210
Grades 11 1 Weighted Credit
This course focuses on the interactions between individuals, societies, and the physical environment in both time and space. It seeks to identify trends and patterns in these interactions and examines the processes behind them. The course integrates both physical and human geography and ensures that students acquire elements of both scientific and socio-economic methodologies. Students who do not take Group 6 Theatre Arts may take Geography as their sixth IB course.

GROUP 4: EXPERIMENTAL SCIENCES

IB BIOLOGY (HL) IB 4380
Grade 11 1 Weighted Credit
This course is designed to meet the objectives of the IB Biology Programme. Throughout the course, four basic biological concepts are used that allow students to study the content at differing levels of complexity (hierarchy). The four concepts are structure and function, university versus diversity, equilibrium within systems, and evolution. Topics covered during the first year of this course include: scientific method, life processes, human physiology, genetics, ecology and plant science, and evolution. During the second year, students complete two of the following options: evolution, neurobiology and behavior, applied plant and animal science, ecology and conservation, or human physiology. The Group 4 project and the required 65 hours of lab work for internal assessment are completed in this course. The second year of this course is completed in grade 12.

IB BIOLOGY (HL) IB 4390
Grade 12 1 Weighted Credit
This course continues the curriculum from IB Biology (HL) in grade 11. Prerequisite: IB Biology (HL)

IB CHEMISTRY (HL) IB 4480
Grade 11 1 Weighted Credit
This course is designed to meet the objectives of the IB Chemistry Programme. At the core of the course are eleven topics: quantitative chemistry, atomic structure, periodicity, bonding, energetics, kinetics, equilibrium, acids and bases, oxidation, organic chemistry, and measurement and data processing. Additional focus will be given to five topics chosen from atomic structure, periodicity, bonding, energetics, kinetics, equilibrium, acids and bases, oxidation, or organic chemistry. During the second year, students complete two of the following options: modern analytical chemistry, human biochemistry, chemistry in industry and technology, medicine and drugs, environmental chemistry, food chemistry, and further organic chemistry and conservation. The Group 4 project and the required 50 hours of lab work for internal assessment are completed in this course. The second year of this course is completed in grade 12.

IB CHEMISTRY (HL) IB 4490
Grade 12 1 Weighted Credit
This course continues the curriculum from IB Chemistry (HL) in grade 11. Prerequisite: IB Chemistry (HL)

IB PHYSICS (SL) IB 45801
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 12th grade.

IB PHYSICS (SL) IB 45802
Grade 12 1 Weighted Credit
This course continues the curriculum from IB Physics (SL) in grade 11. Prerequisite: IB Physics (SL)

GROUP 5: MATHEMATICS & COMPUTER SCIENCE

IB MATHEMATICS (SL) IB 31951
Grade 11 1 Weighted Credit
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. Students who complete IB Math (SL) may take AP Calculus, AP Stats, Probability and Statistics, or Calculus their senior year. Prerequisite: Math Analysis

IB MATHEMATICAL STUDIES (SL) IB 3162
Grade 11 1 Weighted Credit
This course is designed to develop skills needed for success with the mathematical demands of a technological society and to emphasize the application of mathematics to real-life situations. Substantial personal research in the form of a project is a requirement of the course. This math course is an option for students with varied backgrounds who are not likely to require advanced mathematics beyond the IB Diploma Programme. The second year of the course is
completed during the senior year. Students who complete IB Mathematical Studies (SL) may take AP Stats, Math Analysis or Probability and Statistics their senior year.

Prerequisite: Algebra II/Trig

GROUP 6: THE ARTS

IB THEATRE (HL)  IB 1432
Grade 11  1 Weighted Credit
This course engages students in critically studying theater of diverse cultures and historical periods, developing as reflective practitioners of a variety of aspects of theatrical performance, and working both independently and collaboratively to device and produce original theatrical interpretations and/or productions. Course expectations include a variety of assignments geared toward completing IB Internal and External Assessments. IB assessments include a substantial research investigation, writings about practical performance aspects, an independent oral presentation, and a cumulative portfolio project.

IB THEATRE (HL)  IB 1433
Grade 12  1 Weighted Credit
This course continues the curriculum from IB Theatre (HL) in 11th grade
Prerequisite: IB Theatre (HL)

THEORY OF KNOWLEDGE

IB THEORY OF KNOWLEDGE (TOK)  IB 1197
Grades 12-13  1 Weighted Credit
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.

This is a required course for all IB Diploma students.

Naval Sciences (THS & YHS)

HIGH SCHOOL COURSE OFFERINGS

NAVAL SCIENCE I (NJROTC)  79130
NAVAL SCIENCE I (NNDCC)  79131
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/NNDCC 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.

NOTE: Students in this course have an opportunity to take an Industry Certification Test.

NOTE: Naval Science I may fulfill the requirements for Health and PE 9.

NAVAL SCIENCE II (NJROTC)  79160
NAVAL SCIENCE II (NNDCC)  79161
Grades 10-12  1 Credit
This course expands cadets’ knowledge and experience beyond the introduction to NJROTC/NNDCC 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 10th and 11th grade class.

NOTE: Students in this course have an opportunity to take an Industry Certification Test.

Prerequisite: Naval Science I or transfer from other JROTC program

NAVAL SCIENCE III (NJROTC)  79180
NAVAL SCIENCE III (NNDCC)  79181
Grades 11-12  1 Credit
This course expands cadets’ knowledge and experience beyond the introduction to NJROTC/NNDCC 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 10th and 11th grade class.

NOTE: Students in this course have an opportunity to take an Industry Certification Test.

Prerequisite: Naval Science I or transfer from other JROTC program

NAVAL SCIENCE IV (NJROTC)  79190
NAVAL SCIENCE IV (NNDCC)  79191
Grade 12  1 Credit
This course is the continued study of the more effective leadership and communication skills. The curriculum
Secondary Program of Studies

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.

NOTE: Students in this course have an opportunity to take an Industry Certification Test.

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

New Horizons Regional Education Center

High school students in the York County School Division who have completed applicable prerequisites are eligible to apply to take career and technical education courses offered through the New Horizons Regional Education Center (NHREC).

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

COLLISION AND REFINISHING I, II & III  8676
8677
8678
Grades 11-12  3 Credits

Location: Butler Farm
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. Credentialing Test: Employment opportunities exist in the auto tire and service facilities such as Wal-Mart, Costco, Merchants, Firestone, Jiffy Lube, etc.

NOTE: Students in this course have an opportunity to take an Industry Certification Test.

Prerequisite: Eye-hand coordination, manual dexterity, physical strength & stamina, and minimum eighth grade reading/math levels.

AUTO TECHNOLOGY I & II  8506
8507
Grades 11-12  3 Credits

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.

NOTE: This program offers dual enrollment college credit through TNCC in Auto Technology II.

NOTE: Students in this course have an opportunity to take an Industry Certification Test.

Prerequisite: Eye-hand coordination, manual dexterity, physical strength & stamina, and minimum 10th grade reading level with successful completion of Algebra I.
**CAREER CLUSTER: CONSTRUCTION TECHNOLOGY**

**CONSTRUCTION I, II & III**
Grades 11-12
3 Credits

*Location: Woodside Lane*
This one-year course provides an opportunity to obtain entry-level job skills in residential and commercial construction. 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.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

**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 eighth grade reading level.

**ELECTRICITY AND RENEWABLE ENERGY**
Grades 11-12
3 Credits

*Location: Woodside Lane*
Electricity and Renewable Energy is a one-year program that teaches the basic concepts used by electricians to install, maintain and repair wiring, equipment and fixtures. Students in this program will also explore alternative renewable energy sources and will learn to install hydrogen fuel cells, solar panels and communication cable and wiring. As our electricity and alternative renewable energy resource needs continue to grow, so will the career opportunities in this field. Because we depend so much on electricity and other energy sources for the way we live and work, careers in this field will always be in high demand.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

**Prerequisite:** Completion of Algebra I and English 10 with a grade of “C” or above.

**HEATING/VENTILATION/AIRCONDITIONING (HVAC MECHANICAL) I & II**
Grades 11-12
3 Credits

*Location: Butler Farm*
This one-year course prepares students to install, maintain, and repair air conditioning, refrigeration, and heating equipment including oil, electric, and gas.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

**Prerequisite:** Mechanical aptitude, manual dexterity, knowledge of basic mathematics, ability to learn use of blueprints.

**CAREER CLUSTER: ENGINEERING/MANUFACTURING TECHNOLOGY**

**ELECTRONICS/INDUSTRIAL ROBOTICS TECHNOLOGY**
Grade 11
3 Credits

*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 NHREC 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 Greater Peninsula Governor’s STEM Academy.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

**Prerequisite:** Completion of Algebra I with a minimum grade of “B” or above.

**MECHATRONICS**
Grades 11-12
3 Credits

*Location: Butler Farm*
This is a one-year program offered at Butler Farm Campus through a partnership with TNCC. This course will lead to industry certification and prepares students for manufacturing jobs as electrical/mechanical or mechatronics technicians who design, install, maintain, repair, or troubleshoot manufacturing systems that include electrical and mechanical equipment, instrumentation,
controls, and automation. This class is dual enrolled with TNCC for 22 college credits.

**WELDING I & II**  
8672  
8673  
Grades 11-12  
3 Credits  
*Location: Butler Farm – Welding I & II*  
*Woodside Lane – Welding II*  
This is a two-year, three-period course in which students learn to use shielded metal arc welding equipment to weld surface, fillet and prove welds in the flat, horizontal, vertical, and overhead positions. This course employs oxyacetylene equipment for cutting metal as well as plasma arc. The TIG and MIG welding processes are also covered.

**Expectations:** All students in welding are required to do physical labor related to welding. Welding is a construction trade and demands physical involvement.  
**Expenses:** Students are required to provide the welding kit and the clothes in which they weld. Boots with steel toes, long sleeve shirts, and long pants are the required attire.  
*NOTE:* Students in this course have an opportunity to take an Industry Certification Test.  
**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.

### CAREER CLUSTER: HEALTH SCIENCES

**DENTAL ASSISTANT I & II**  
8328  
8329  
Grades 11-12  
3 Credits  
*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.  
*NOTE:* Students in this course have an opportunity to take an Industry Certification Test.  
**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 10th grade level. Uniforms, liability insurance, and Hepatitis-B vaccinations required for second-year students in dental office.

**MEDICAL ASSISTANT**  
8345  
8346  
Grades 11-12  
3 Credits  
*Location: Butler Farm*  
This one-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.  
*NOTE:* Students in this course have an opportunity to take an Industry Certification Test.  
**Prerequisite:** One semester of Keyboarding applications or equivalent, minimum 10th grade reading level, and completion of Biology with a grade of “C” or above. Current TB skin test must be on file with NHREC.

**NURSING ASSISTANT**  
8360  
8362  
Grades 11-12  
3 Credits  
*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 NHREC 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.  
*NOTE:* Students in this course have an opportunity to take an Industry Certification Test.  
**Prerequisite:** Desire to work with people, good physical condition, good eye-hand coordination, ability to read & comprehend technical material at a 10th grade level, knowledge of basic mathematics, compliance with dress code including short fingernails, white uniform, white shoes, white hosiery & watch with a second hand.

**PHARMACY TECH**  
8305  
8306  
Grades 11-12  
3 Credits  
*Location: Woodside Lane*  
This one-year program prepares students to administer schedule VI topical medicinal agents, including topical fluoride and desensitizing agents. Students in this course have an opportunity to take an Industry Certification Test.  
**Prerequisite:** One semester of Keyboarding applications or equivalent, minimum 10th grade reading level, and completion of Biology with a grade of “C” or above. Current TB skin test must be on file with NHREC.
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.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

**VETERINARY SCIENCE**

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**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.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

**BARBERING II**

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<tr>
<td>8741</td>
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**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.

**Prerequisite:** Eye-hand coordination, manual dexterity, good color discrimination, ability to follow oral & written directions, minimum 10th grade reading level, and completion of English 10 and Biology with a “C” average.

**COSMETOLOGY I & II**

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**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.

**Prerequisite:** Eye-hand coordination, manual dexterity, good color discrimination, ability to follow oral & written directions, minimum 10th grade reading level, and completion of English 10 and Biology with a “C” average.

**CULINARY ARTS I & II**

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<td>8276</td>
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**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.

**NOTE:** This program offers dual enrollment college credit through TNCC.

**EARLY CHILDHOOD EDUCATION**

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<td>8234</td>
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<td>8285</td>
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**(2017-2018 ONLY)**

**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.

**NOTE:** This program offers dual enrollment college credit through TNCC.

**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 10th grade reading level and completion of English 10 with a “C” average or above.
CAREER CLUSTER: INFORMATION TECHNOLOGY

COMPUTER SYSTEMS TECHNOLOGY

Grades 11-12 3 Credits

8622 8623

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.

NOTE: Students in this course have an opportunity to take an Industry Certification Test.

Prerequisite: Completion of a computer applications course and minimum 10th grade reading level.

COMPUTER NETWORKING/CYBER SECURITY

Grades 11-12 3 Credits

8542 8543 8544 8545

Location: Woodside Lane

This is a rigorous industry designed course taught by a CISCO certified instructor in a highly technical networking lab. The first semester qualifies the students to take the CISCO CCENT verification through training and technical labs in computer ethics, identifying security threats, and security defense. The second semester offers the potential for students to take the CISCO CCNA exam through training in configuring and troubleshooting routers, switches, and network devices. The class is dual enrolled for 6 college credits at TNCC.

NOTE: Students enrolling in Computer Networking/Cyber Security must have completed an advanced Math course above Algebra I with a grade of “B” or above. This one-year course meets the sequential elective requirement. Students may earn college credit through TNCC.

NOTE: Students in this course have an opportunity to take an Industry Certification Test.

COMPUTER PROGRAMMING ADVANCED PROGRAMMING

Grades 11-12 3 Credits

6640 6641

Location: Woodside Lane

This industry designed course will allow students to focus on computer science and apply key programming concepts, algorithmic procedures, programming languages, and web based applications. In the Advanced Programming course, students will use object-oriented programming to design and develop database and multimedia program and applications. The class is dual enrolled for 6 college credits at TNCC.

NOTE: Students enrolling in Computer Programming and Advanced Programming must have completed Algebra I with a grade of “C” or above. This one-year course meets the sequential elective requirement. Students may earn college credit through TNCC.

NOTE: Students in this course have an opportunity to take an Industry Certification Test.

CAREER CLUSTER: PUBLIC SERVICE

EMERGENCY MEDICAL TECHNICIAN

Grades 11-12 3 Credits

8333 8334

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.

NOTE: Students in this course have an opportunity to take an Industry Certification Test.

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 10th grade reading/math levels.

**FIREFIGHTER I & II**  
8705  
8706  
Grades 11-12  
3 Credits  

**Location:** Butler Farm  

Firefighters are one of the three public safety divisions (EMS, fire & law enforcement). This course provides indoctrination to the firefighting 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 firefighting 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.

**NOTE:** This program offers dual enrollment college credit through TNCC as well as an opportunity for a Fire Fighter apprenticeship with the completion of EMT.

**CRIMINAL JUSTICE**  
8702  
8703  
Grades 11-12  
3 Credits

**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.

**NOTE:** Students in this course have an opportunity to take an Industry Certification Test.

**Prerequisite:** Minimum GPA of 2.0, a genuine interest in pursuing a career in criminal justice, solid writing & communication skills, minimum grade 10 reading level.

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**School of the Arts: Middle School Arts Magnet**

Only middle school students accepted into the Middle School Arts Magnet (mSAM) may enroll in the courses listed in this section.

**mSAM COURSE OFFERINGS**

**LITERARY ARTS 6**  
11092  
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 mSAM.

**RHYTHMIC ARTS 6**  
93022  
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 mSAM.

**THEATRE ARTS 6**  
13902  
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.

**LITERARY ARTS 7**  
11103  
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 mSAM.

**RHYTHMIC ARTS 7**  
93023  
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 mSAM.

THEATRE ARTS 7

Grade 7

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.

LITERARY ARTS 8

Grade 8

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 mSAM.

RHYTHMIC ARTS 8

Grade 8

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 mSAM.

THEATRE ARTS 8

Grade 8

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.
Only students accepted into the School of the Arts (SOA) may enroll in the courses listed within this section.

Students may enroll in both the Dance 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.

**SOA COURSE OFFERINGS**

**ADVANCED LITERARY ARTS 9**

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<tr>
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<td>117710</td>
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<tr>
<td>Advanced Arts Link and Writers Workshop 9*</td>
<td>117711</td>
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</tbody>
</table>

*Fine Arts Elective

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 19th – 21st century 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 literature to include essays, short stories, novels, drama, and poetry. The courses help prepare students for the English AP Exam.

**Prerequisite: Application & Audition**

**ADVANCED LITERARY ARTS 10**

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<td>117720</td>
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<tr>
<td>Advanced Arts Link and Writer</td>
<td>117721</td>
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*Fine Arts Elective

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 AP Exam.

**Prerequisite: Advanced Literary Arts 9 or Application & Audition**
*Fine Arts Elective*

**ADVANCED LITERARY ARTS 11**

**ADVANCED ENGLISH 11**

**ADVANCED ART LINK AND WRITER**

**WORKSHOP 11***

Grade 11

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 AP Exam.

**Prerequisite: Advanced Literary Arts 10 or Application & Audition**
*Fine Arts Elective*

**ADVANCED LITERARY ARTS 12**

**ADVANCED ENGLISH 12**

**ADVANCED ARTS LINK AND WRITER**

**WORKSHOP 12***

Grade 12

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 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 AP Exam.

**Prerequisite: Advanced Literary Arts 11 or Application & Audition**
*Fine Arts Elective *

**ADVANCED THEATRE ARTS 1***

**ADVANCED WRITER WORKSHOP 12**

**WITH PRACTICUM**

Grade 12

2 Weighted Credits

These interdisciplinary courses are designed for advanced students with demonstrated skills in writing and the analysis of literature and the related arts. 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, (30) supervised hours are required. The student will also be required to complete a cumulative research project and present it for judging at the end of the course. Students must maintain a passing grade in all courses to remain in this program.

**Prerequisite: Application**

**ADVANCED TECHNICAL THEATRE 1***

Grade 9-12

1 Weighted Credit

This interdisciplinary course is designed for students with demonstrated acting ability who also exhibit an awareness that theatre is a discipline requiring diligent study and application. The course emphasizes the interdisciplinary nature of the fine arts; theatre as a reflection of social, political, and economic conditions; play analysis for interpretation, character development, and production values; acting theory; vocal and physical skills and techniques; and practical application of theory, skills, and techniques.

**Prerequisite: Application & Audition**
*Fine Arts Elective*
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.

**Prerequisite: Application & Audition**

*Fine Arts Elective

**IMPROVISATION COMEDY/ SKETCH COMEDY***

1448

Grades 9-12 1 Credit

This course is an introduction to improvisational performance and sketch comedy writing. The first semester is focused on the building blocks of scenic improvisation, improvising scenes, character work, improvisation, and improvisation in performance. The second semester uses scenic improvisation to develop written sketch comedy. Students will learn basic scene structure, character development, establish action, and learn the styles and genres of comedy. Weekly writing assignments and in-class exercises generate material and establish a regular writing schedule. Each semester culminates in performance.

NOTE: If space is available, only Non-SOA BHS students may enroll in this course.

**DANCE ARTS I***

9311

Grades 9-12 1 Credit

This dance course focuses on techniques and skills necessary to attain performance level, with emphasis on interpreting dance in an emotional context. The interdisciplinary focus includes a survey of dance classics that allow for study of visual arts and music related to the time period of the dance under study. The course requires reading and written work as well as practical dance effort.

**Prerequisite: Application & Audition**

*Fine Arts Elective or One Physical Education Credit

**ADVANCED THEATRE ARTS II***

144011

Grades 10-12 1 Weighted Credit

This interdisciplinary course is designed to focus on acting styles for period plays and the historical and cultural perspective needed to perform period plays. The course is an in-depth, broadening continuation of the Advanced Theatre Arts I course and continues to emphasize the interdisciplinary nature of the fine arts; theatre as a reflection of social, political, and economic conditions; play analysis for interpretation, character development, and production values; acting theory; vocal and physical skills and techniques; and practical application of theory, skills, and techniques.

**Prerequisite: Advanced Theatre Arts I**

*Fine Arts Elective

**ADVANCED TECHNICAL THEATRE II-IV***

1435

Grades 10-12 1 Weighted Credit

This course is designed for students interested in backstage work and focuses on training students to be theatre technicians 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)

**Prerequisite: Advanced Technical Theatre**

*Fine Arts Elective

**ADVANCED TECHNICAL THEATRE III-IV WITH PRACTICUM***

14355

Grades 11-12 2 Weighted Credits

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)

**Prerequisite: Advanced Technical Theatre**

*Fine Arts Elective

**DANCE ARTS II***

9313

Grades 10-12 1 Credit

This dance course is a natural progression from Dance Arts I. The focus of the course is the enhancement and refinement of dance skills and techniques. In addition, the course addresses the more technical aspects of dance performance, such as basic principles in lighting, set, sound, and costume design, as they relate to dance performance. Reading, written assignments, and dance performances are required components of this course.

**Prerequisite: Dance Arts I**

*Fine Arts Elective or One Physical Education Credit

**ADVANCED THEATRE ARTS III***

144012

Grades 11-12 1 Weighted Credit
This course further develops the skills acquired in Advanced Theatre Arts II and continues to emphasize the interdisciplinary nature of the fine arts. Particular focus is given to analysis and interpretation of modern and contemporary plays. Practical application of theory and process are provided through specialized field experiences and/or community service.

**Prerequisite: Advanced Theatre Arts II**  
*Fine Arts Elective*

**DANCE ARTS III**  
9316
Grades 11-12  
1 Weighted Credit

This dance course is a natural progression from Dance Arts II. The focus of the course is choreography composition to include staging, lighting design, costume design and impact of performance. During this course students also gain exposure to leadership positions within the rehearsal and impact of performance. Reading, written assignments, and dance performances are required components of this course.

**Prerequisite: Dance Arts II**

**ADVANCED THEATRE ARTS IV*  
144013**
Grade 12  
1 Weighted Credit

This course continues to emphasize the interdisciplinary nature of the fine arts and focuses on selected components of performance to meet individual needs. The course provides individual and/or group projects, which may include: directing, design, acting, and creative dramatics. Working field experiences may be provided, with instructor approval, in cooperation with selected theatre groups and/or schools.

**Prerequisite: Advanced Theatre Arts III**

### *Fine Arts Elective*

**ADVANCED THEATRE ARTS IV WITH PRACTICUM*  
144016**
Grade 12  
2 Weighted Credits

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.

**Prerequisite: Open to students in grades 10-12 who are enrolled in the fourth year SOA theatre course.**  
*Fine Arts Elective*

**DANCE ARTS IV**  
93151
Grade 12  
1 Weighted Credit

The focus of this level IV course is mechanics of choreography phrasing. Choreography composition is dissected into elements of timing, imagery, and phrasing overlap. Advanced dance techniques are introduced into the training. During this course students also gain exposure to leadership positions within the rehearsal and production processes.

**Prerequisite: Dance Arts III**
York River Academy students may enroll in courses outlined in other parts of this *Program of Studies* as the courses are available at YRA, as well as courses offered through YCSD Virtual High School and Virtual Virginia.

**YRA COURSE OFFERINGS**

**WEB DESIGN/FRESHMAN SEMINAR**  
Grade 9  
1 Credit Each  
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 Freshman Seminar portion 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.

**A+ COMPUTER REPAIR I**  
Grade 9-10  
1 Credit Each  
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 infrastructure. Second year content focuses on multimedia technology, understanding and supporting Windows workstations, purchasing a PC or building your own, and certification test preparation.

**WEB DESIGN I**  
Grade 9-10  
1 Credit Each  
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.

**WEB APPLICATIONS**  
Grade 9-12  
1 Credit  
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.
## Sequential Electives

### ART
- **Art I:** Art Foundations  
- **Art II:** Ceramics A or B  
- **Art Heritage:** Computer Graphic Art  
- **AP Art History:** Crafts: Cultural Arts or Decorative Arts/Design  
- **Drama I:** Photography & Communication Design I  
- **Drama II:** Photography & Communication Design II  
- **Survey of World Drama:** Technical Theatre

### MUSIC
- **Chorus I:** Small Vocal Ensemble II  
- **Chorus II:** Small Vocal Ensemble II  
- **Concert Band I:** Symposium Band I  
- **Concert Band II:** Symposium Band II  
- **Brass Sectionals I:** Woodwind Sectionals I  
- **Brass Sectionals II:** Woodwind Sectionals II  
- **Woodwinds, Brass or Percussion Sectionals I:** Percussion Sectionals I  
- **Woodwinds, Brass or Percussion Sectionals II:** Percussion Sectionals II  
- **Concert Band II:** Symphonic Band II  
- **Symphonic Band II:**

### ENGLISH
- **Literary Magazine/Mass Media I:** Newspaper/Mass Media I  
- **Literary Magazine/Mass Media II:** Newspaper/Mass Media II  
- **Yearbook Magazine/Mass Media I:** Yearbook Magazine/Mass Media II  
- **Yearbook Magazine/Mass Media II:**

### WORLD LANGUAGES
- **Arabic I:** French I  
- **Arabic II:** French II  
- **German I:** Latin I  
- **German II:** Latin II  
- **Latin I:** Mandarin Chinese I  
- **Latin II:** Mandarin Chinese II  
- **Spanish I:**

### SCHOOL OF THE ARTS
- **Advanced Art Link 9:** Advanced Technical Theatre I  
- **Advanced Art Link 10:** Advanced Technical Theatre II  
- **Advanced Theater Arts I:** Advanced Writer Workshop 10  
- **Advanced Theater Arts II:** Advanced Writer Workshop 11  
- **Dance Arts I:**

### HEALTH & PHYSICAL EDUCATION
- **Physical Education A (Grade 11):** Physical Education A (Grade 12)  
- **Physical Education B (Grade 11):** Physical Education B (Grade 12)  

### NJROTC/NNDCC
- **Naval Science I:** Naval Science II  
- **Naval Science III:** Naval Science IV

Sequential Electives are also available within CTE, NHREC, and the Governor’s School. Additional information is available in each school’s counseling office.
### Advanced Courses

<table>
<thead>
<tr>
<th>Advanced English 9</th>
<th>French IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced English 10</td>
<td>German IV</td>
</tr>
<tr>
<td>Biology II: Mammalian Anatomy &amp; Physiology</td>
<td>Latin IV</td>
</tr>
<tr>
<td>Biology II: Marine Science</td>
<td>Spanish IV</td>
</tr>
<tr>
<td>Advanced Geometry</td>
<td>Spanish Conversation and Culture</td>
</tr>
<tr>
<td>Advanced Literary Arts 9, 10,11,12</td>
<td>Math Analysis, Algebra II/Trigonometry</td>
</tr>
<tr>
<td>Advanced Literary Arts Writing Practicum</td>
<td>Advanced Theatre Arts III &amp; IV with Practicum</td>
</tr>
<tr>
<td>IB Classical Languages: Latin (SL) (11&amp;12)</td>
<td>Advanced Technical Theatre III &amp; IV with Practicum</td>
</tr>
<tr>
<td>IB Language A: Language &amp; Literature-English (HL) (11&amp;12)</td>
<td>IB Theatre (HL) (11&amp;12)</td>
</tr>
<tr>
<td>IB Language B: French/Spanish (SL) (HL) (11&amp;12)</td>
<td>IB Biology (HL) (11&amp;12)</td>
</tr>
<tr>
<td>IB Mathematical Studies (SL) (11)</td>
<td>IB Chemistry (HL) (11&amp;12)</td>
</tr>
<tr>
<td>IB History of the Americas (11&amp;12)</td>
<td>IB Physics (SL) (11&amp;12)</td>
</tr>
<tr>
<td></td>
<td>Governor’s School for Science &amp; Technology courses</td>
</tr>
</tbody>
</table>
ACADEMIC LAB................................................................. 51
ACADEMIC SEMINAR....................................................... 37
ACADEMIC TUTORIAL ...................................................... 38
ACCOUNTING I ................................................................. 21
ACCOUNTING II ............................................................... 22
ADVANCED BAND ............................................................ 35
ADVANCED CHORUS ......................................................... 35
ADVANCED COURSE EXPERIENCE ....................... 37
ADVANCED DRAWING/DESIGN/CAD ..................... 27
ADVANCED ENGLISH 10 .................................................. 30
ADVANCED ENGLISH 6 .................................................... 29
ADVANCED ENGLISH 7 .................................................... 29
ADVANCED ENGLISH 8 .................................................... 29
ADVANCED ENGLISH 9 .................................................... 30
ADVANCED GEOMETRY .................................................. 45, 46
ALGEBRA I ................................................................. 45
ALGEBRA I MATH LAB ................................................. 51
ALGEBRA I MATH LAB ELECTIVE ............................... 45
ALGEBRA IA & IB ........................................................... 45
ALGEBRA II/TRIGONOMETRY ......................................... 46
ALGEBRA II & IIB .......................................................... 46
ALGEBRA III ................................................................. 46
ALGEBRA, FUNCTIONS AND DATA ANALYSIS (AFDA) 46
AMERICAN SIGN LANGUAGE .............................................. 38
AP ART HISTORY ............................................................ 33
AP BIOLOGY ..................................................................... 50
AP CALCULUS AB ........................................................... 46
AP CALCULUS BC ............................................................ 47
AP CHEMISTRY .............................................................. 50
AP CHINESE LANGUAGE AND CULTURE ............... 55
AP COMPUTER SCIENCE A .............................................. 48
AP COMPUTER SCIENCE II ......................................... 48
AP ENGLISH 11 LANGUAGE & COMPOSITION .......... 30
AP ENGLISH 12 LANGUAGE & COMPOSITION .......... 30
AP ENVIRONMENTAL SCIENCE ........................................ 50
AP EUROPEAN HISTORY ................................................ 42
AP FRENCH LANGUAGE .................................................. 55
AP GOVERNMENT & POLITICS COMPARATIVE ............. 43
AP HUMAN GEOGRAPHY .................................................. 42
AP LATIN LITERATURE ................................................... 55
AP MACRO ECONOMICS ............................................... 43
AP MICRO ECONOMICS .................................................. 43
AP MUSIC THEORY ......................................................... 37
AP PHYSICS I ................................................................. 50
AP PSYCHOLOGY ............................................................ 42
AP SPANISH LANGUAGE .................................................. 55
AP STATISTICS .............................................................. 47
AP STUDIO ART 2D ........................................................ 33
AP STUDIO ART 3D ........................................................ 33
AP STUDIO ART DRAWING PORTFOLIO .................... 33
AP UNITED STATES HISTORY ........................................ 43
AP US GOVERNMENT & POLITICS ................................. 43
AP WORLD HISTORY ....................................................... 42
APPLIED ENGLISH ......................................................... 51
APPLIED HISTORY/SOCIAL SCIENCE ....................... 51
APPLIED MATHEMATICS .............................................. 51
APPLIED SCIENCE ........................................................ 51
ARABIC I ................................................................. 53, 54
ARABIC II ................................................................. 54
ARABIC III ................................................................. 54
ARCHITECTURAL DRAWING/DESIGN/CAD ............... 26
ART HERITAGE ............................................................. 33
ART I ART FOUNDATIONS ............................................. 32
ART II INTERMEDIATE .................................................. 33
ART III ADVANCED INTERMEDIATE ......................... 34
ART IV ADVANCED ....................................................... 34
ATMOSPHERIC SCIENCE & CLIMATOLOGY .................. 49
BASIC TECHNICAL DRAWING/DESIGN/CAD ............. 26
BEGINNING BAND ....................................................... 35
BEGINNING BAND 6 ...................................................... 35
BEGINNING GUITAR-ACOUSTIC .................................... 36
BIOLOGY I ................................................................. 49
BIOLOGY II/MAMMALIAN ANATOMY & PHYSIOLOGY 50
BIOLOGY II/MARINE SCIENCE ...................................... 50
BRASS SECTIONALS ....................................................... 36
BRASS SECTIONALS II ...................................................... 36
BUSINESS LAW ............................................................ 21
BUSINESS MANAGEMENT .............................................. 21
BUSINESS-INDIVIDUALIZED EDUCATION PROGRAM ...... 51
CALCULUS ................................................................. 47
CAREER COMPASS 6 ..................................................... 37
CAREER DISCOVERY ..................................................... 38
CAREER MENTORSHIP .................................................. 39
CERAMICS A ............................................................... 32
CERAMICS B ............................................................... 32
CHEMISTRY I ............................................................... 49
CHORUS I ................................................................. 35
CHORUS II ................................................................. 35
CIVICS AND ECONOMICS ............................................... 42
COMPUTER APPLICATION ............................................... 21
COMPUTER GRAPHIC ART ............................................ 33
COMPUTER INFORMATION SYSTEMS I ................. 21
COMPUTER INFORMATION SYSTEMS II .................... 22
COMPUTER MATHEMATICS ......................................... 46
CONCERT BAND I ......................................................... 36
CONCERT BAND II ......................................................... 36
CONFLICT RESOLUTION SKILLS 6 .......................... 37
COORDINATE OFFICE EDUCATION ....................... 22
CRAFTS CULTURAL ARTS ................................................ 32
CRAFTS DECORATIVE ARTS & DESIGN ............... 33
CREATIVE WRITING POETRY .......................................... 31
CREATIVE WRITING PROSE ......................................... 31
CRIMINAL JUSTICE .......................................................... 38
<table>
<thead>
<tr>
<th>Course</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEYBOARDING/COMPUTER APPLICATIONS I</td>
<td>21</td>
</tr>
<tr>
<td>KEYBOARDING/COMPUTER APPLICATIONS II</td>
<td>21</td>
</tr>
<tr>
<td>LATIN I</td>
<td>53, 54</td>
</tr>
<tr>
<td>LATIN II</td>
<td>54</td>
</tr>
<tr>
<td>LATIN III</td>
<td>54</td>
</tr>
<tr>
<td>LATIN IV</td>
<td>55</td>
</tr>
<tr>
<td>LEADERSHIP DEVELOPMENT</td>
<td>23</td>
</tr>
<tr>
<td>LEADERSHIP SEMINAR A &amp; B</td>
<td>39</td>
</tr>
<tr>
<td>LEP LANGUAGE AND CULTURES</td>
<td>38</td>
</tr>
<tr>
<td>LIFE PLANNING</td>
<td>39</td>
</tr>
<tr>
<td>LIFE SCIENCE 7</td>
<td>49</td>
</tr>
<tr>
<td>LITERARY MAGAZINE/MASS MEDIA I</td>
<td>31</td>
</tr>
<tr>
<td>LITERARY MAGAZINE/MASS MEDIA II</td>
<td>31</td>
</tr>
<tr>
<td>MANDARIN CHINESE I</td>
<td>53, 54</td>
</tr>
<tr>
<td>MANDARIN CHINESE II</td>
<td>54</td>
</tr>
<tr>
<td>MANDARIN CHINESE III</td>
<td>54</td>
</tr>
<tr>
<td>MANDARIN CHINESE IV</td>
<td>55</td>
</tr>
<tr>
<td>MARKETING I/CO-OP &amp; OE</td>
<td>25</td>
</tr>
<tr>
<td>MARKETING II/CO-OP &amp; OE</td>
<td>25</td>
</tr>
<tr>
<td>MARKETING MANAGEMENT</td>
<td>25</td>
</tr>
<tr>
<td>MATHEMATICAL ANALYSIS</td>
<td>47</td>
</tr>
<tr>
<td>MEDICAL TERMINOLOGY</td>
<td>23</td>
</tr>
<tr>
<td>MIDDLE SCHOOL PUBLIC SPEAKING</td>
<td>38</td>
</tr>
<tr>
<td>MIDDLE SCHOOL YEARBOOK</td>
<td>38</td>
</tr>
<tr>
<td>MSAM</td>
<td></td>
</tr>
<tr>
<td>LITERARY ARTS 6</td>
<td>69</td>
</tr>
<tr>
<td>LITERARY ARTS 7</td>
<td>69</td>
</tr>
<tr>
<td>LITERARY ARTS 8</td>
<td>70</td>
</tr>
<tr>
<td>RHYTHMIC ARTS 6</td>
<td>69</td>
</tr>
<tr>
<td>RHYTHMIC ARTS 7</td>
<td>69</td>
</tr>
<tr>
<td>RHYTHMIC ARTS 8</td>
<td>70</td>
</tr>
<tr>
<td>THEATRE ARTS 6</td>
<td>69</td>
</tr>
<tr>
<td>THEATRE ARTS 7</td>
<td>70</td>
</tr>
<tr>
<td>THEATRE ARTS 8</td>
<td>70</td>
</tr>
<tr>
<td>MULTIMEDIA COMMUNICATIONS SEMINAR</td>
<td>39</td>
</tr>
<tr>
<td>MUSIC APPRECIATION A &amp; B</td>
<td>36</td>
</tr>
<tr>
<td>MUSIC THEORY</td>
<td>36</td>
</tr>
<tr>
<td>MUSICAL STAGE PRODUCTIONS</td>
<td>35</td>
</tr>
<tr>
<td>NEWSPAPER/MASS MEDIA</td>
<td>38</td>
</tr>
<tr>
<td>NEWSPAPER/MASS MEDIA I</td>
<td>31</td>
</tr>
<tr>
<td>NEWSPAPER/MASS MEDIA II</td>
<td>31</td>
</tr>
<tr>
<td>NHREC</td>
<td></td>
</tr>
<tr>
<td>AUTO TECHNOLOGY I &amp; II</td>
<td>64</td>
</tr>
<tr>
<td>BARBERING II</td>
<td>67</td>
</tr>
<tr>
<td>COLLISION AND REFINISHING I, II</td>
<td>64</td>
</tr>
<tr>
<td>COMPUTER NETWORKING/CYBER SECURITY</td>
<td>68</td>
</tr>
<tr>
<td>COMPUTER PROGRAMMING I ADVANCED PROGRAMMING</td>
<td>68</td>
</tr>
<tr>
<td>COMPUTER SYSTEMS TECHNOLOGY</td>
<td>68</td>
</tr>
<tr>
<td>CONSTRUCTION I, II &amp; III</td>
<td>65</td>
</tr>
<tr>
<td>COSMETOLOGY I &amp; II</td>
<td>67</td>
</tr>
<tr>
<td>CULINARY ARTS I &amp; II</td>
<td>67</td>
</tr>
<tr>
<td>DENTAL ASSISTANT I &amp; II</td>
<td>66</td>
</tr>
<tr>
<td>ELECTRICITY AND RENEWABLE ENERGY</td>
<td>65</td>
</tr>
<tr>
<td>ELECTRONICS/INDUSTRIAL ROBOTICS</td>
<td></td>
</tr>
<tr>
<td>TECHNOLOGY/ADVANCED INDUSTRIAL ROBOTICS</td>
<td></td>
</tr>
<tr>
<td>TECHNOLOGY</td>
<td>65</td>
</tr>
<tr>
<td>EMERGENCY MEDICAL TECHNICIAN</td>
<td>68</td>
</tr>
<tr>
<td>FIREFIGHTER I &amp; II</td>
<td>69</td>
</tr>
<tr>
<td>HEATING/VENTILATION/AIRCONDITIONING (HVC)</td>
<td>65</td>
</tr>
<tr>
<td>MECHANICAL I &amp; II</td>
<td>65</td>
</tr>
<tr>
<td>LAW ENFORCEMENT/CRIMINAL JUSTICE</td>
<td>69</td>
</tr>
<tr>
<td>MECHATRONICS</td>
<td>65</td>
</tr>
<tr>
<td>MEDICAL ASSISTANT</td>
<td>66</td>
</tr>
<tr>
<td>NURSING ASSISTANT</td>
<td>66</td>
</tr>
<tr>
<td>PHARMACY TECH</td>
<td>66</td>
</tr>
<tr>
<td>VETERINARY SCIENCE</td>
<td>67</td>
</tr>
<tr>
<td>WELDING I &amp; II</td>
<td>66</td>
</tr>
<tr>
<td>WIROTC</td>
<td></td>
</tr>
<tr>
<td>NAVAL SCIENCE I</td>
<td>40, 63</td>
</tr>
<tr>
<td>NAVAL SCIENCE II</td>
<td>63</td>
</tr>
<tr>
<td>NAVAL SCIENCE III</td>
<td>63</td>
</tr>
<tr>
<td>NAVAL SCIENCE IV</td>
<td>63</td>
</tr>
<tr>
<td>NNDCC</td>
<td></td>
</tr>
<tr>
<td>NAVAL SCIENCE I</td>
<td>40, 63</td>
</tr>
<tr>
<td>NAVAL SCIENCE II</td>
<td>63</td>
</tr>
<tr>
<td>NAVAL SCIENCE III</td>
<td>63</td>
</tr>
<tr>
<td>NAVAL SCIENCE IV</td>
<td>63</td>
</tr>
<tr>
<td>NUTRITION AND WELLNESS</td>
<td>39</td>
</tr>
<tr>
<td>PERSUSSION SECTIONALS I</td>
<td>36</td>
</tr>
<tr>
<td>PERSUSSION SECTIONALS II</td>
<td>36</td>
</tr>
<tr>
<td>PERSONAL LIVING AND FINANCE</td>
<td>47</td>
</tr>
<tr>
<td>PHOTOGRAPHY &amp; COMMUNICATION DESIGN I</td>
<td>33</td>
</tr>
<tr>
<td>PHOTOGRAPHY &amp; COMMUNICATION DESIGN II</td>
<td>34</td>
</tr>
<tr>
<td>PHYSICAL EDUCATION A &amp; B</td>
<td>41</td>
</tr>
<tr>
<td>PHYSICAL EDUCATION/LIFETIME FITNESS 6</td>
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</tr>
<tr>
<td>PHYSICAL EDUCATION/LIFETIME FITNESS 7</td>
<td>40</td>
</tr>
<tr>
<td>PHYSICAL EDUCATION/LIFETIME FITNESS 8</td>
<td>40</td>
</tr>
<tr>
<td>PHYSICAL SCIENCE 8</td>
<td>49</td>
</tr>
<tr>
<td>PHYSICS I</td>
<td>50</td>
</tr>
<tr>
<td>PRACTICAL ENGLISH</td>
<td>52</td>
</tr>
<tr>
<td>PRACTICAL HISTORY/SOCIAL SCIENCE</td>
<td>52</td>
</tr>
<tr>
<td>PRACTICAL LIFE SKILLS</td>
<td>52</td>
</tr>
<tr>
<td>PRACTICAL MATH</td>
<td>52</td>
</tr>
<tr>
<td>PRACTICAL SCIENCE</td>
<td>52</td>
</tr>
<tr>
<td>PRE-VOCAATIONAL SKILLS</td>
<td>52</td>
</tr>
<tr>
<td>PRE-VOCAATIONAL TRAINING &amp; INDEPENDENT LIVING</td>
<td>51</td>
</tr>
<tr>
<td>PROBABILITY &amp; STATISTICS</td>
<td>47</td>
</tr>
<tr>
<td>PROGRAMMING &amp; GAME DESIGN</td>
<td>39</td>
</tr>
<tr>
<td>PROGRAMMING &amp; INTRODUCTION TO COMPUTER SCIENCE</td>
<td>39</td>
</tr>
<tr>
<td>PROJECT EXPERIENCE</td>
<td>52</td>
</tr>
<tr>
<td>PROJECT EXPLORE</td>
<td>52</td>
</tr>
<tr>
<td>PROJECT SEARCH</td>
<td>52</td>
</tr>
<tr>
<td>PSYCHOLOGY</td>
<td>43</td>
</tr>
<tr>
<td>PUBLIC SPEAKING COMMUNICATION</td>
<td>31</td>
</tr>
<tr>
<td>PUBLIC SPEAKING PRESENTATION</td>
<td>31</td>
</tr>
<tr>
<td>READING WORKS 7 (A &amp; B)</td>
<td>29</td>
</tr>
<tr>
<td>READING WORKS 8 (A &amp; B)</td>
<td>29</td>
</tr>
<tr>
<td>SAT PREPARATION</td>
<td>39</td>
</tr>
</tbody>
</table>
SCIENCE 6 ................................................................. 49
SCULPTURE AND CRAFTS .................................................. 32
SENIOR MATHEMATICS .................................................... 48
SERVICE LEARNING .......................................................... 40
SET FOR SUCCESS ............................................................ 37
SMALL VOCAL ENSEMBLE I ........................................... 35
SMALL VOCAL ENSEMBLE II ........................................... 35

SOA
ADVANCED ARTS LINK AND WRITERS WORKSHOP 10 .......... 71
ADVANCED ARTS LINK AND WRITERS WORKSHOP 11 .......... 72
ADVANCED ARTS LINK AND WRITERS WORKSHOP 12 .......... 72
ADVANCED ARTS LINK AND WRITERS WORKSHOP 9 ............ 71
ADVANCED TECHNICAL THEATRE I ...................................... 72
ADVANCED TECHNICAL THEATRE III-IV WITH PRACTICUM .... 73
ADVANCED TECHNICAL THEATRE II-IV ................................. 73
ADVANCED THEATRE ARTS I .................................................. 72
ADVANCED THEATRE ARTS II ................................................ 73
ADVANCED THEATRE ARTS III ............................................. 73
ADVANCED THEATRE ARTS IV ............................................. 74
ADVANCED THEATRE ARTS IV WITH PRACTICUM ............... 74
ADVANCED WRITER WORKSHOP 12 WITH PRACTICUM ....... 72
DANCE ARTS I ................................................................. 73
DANCE ARTS II ............................................................... 73
DANCE ARTS III ............................................................. 74
DANCE ARTS IV .............................................................. 74
IMPROVISATION COMEDY/SKETCH COMEDY .................. 73
SOCIOLOGY ASPECTS & TOOLS OF CULTURE .................. 43
SOCIOLOGY INSTITUTIONS & ISSUES ................................. 43
SPANISH CONVERSATION AND CULTURE ...................... 56
SPANISH I ..................................................................... 53, 54
SPANISH II ..................................................................... 53, 54
SPANISH III .................................................................... 54
SPANISH IV .................................................................... 54
SPORTS & ENTERTAINMENT MARKETING I/CO-OP & OE ... 25
SPORTS & ENTERTAINMENT MARKETING II/CO-OP & OE ... 25
STAGE BAND I ................................................................. 36
STAGE BAND II ............................................................... 36

STUDENT ASSISTANCE EXPERIENCE ................................ 40
STUDENT TECHNOLOGY LEADERSHIP CORPS ............... 39
SURVEY OF THE WORLD DRAMA ................................... 34
SURVEY OF WORLD LANGUAGES .................................... 53
SYMPHONIC BAND I ........................................................ 36
SYMPHONIC BAND II ...................................................... 37
TECHNICAL THEATRE A & B .......................................... 34
TECHNOLOGICAL SYSTEMS ............................................. 26
TECHNOLOGY FOUNDATIONS .......................................... 26
THREE-DIMENSIONAL (3D) DESIGN .................................. 33
TRIGONOMETRY ............................................................. 47
TRIGONOMETRY AND FUNCTIONS .................................... 46
UNITED STATES HISTORY TO 1865 ................................. 41
US HISTORY II 1865 TO THE PRESENT ............................. 42
VA & US GOVERNMENT .................................................... 44
VA & US HISTORY .......................................................... 43
WOODWIND SECTIONALS I .............................................. 36
WOODWIND SECTIONALS II .............................................. 37
WORLD GEOGRAPHY ...................................................... 42
WORLD HISTORY I .......................................................... 42
WORLD HISTORY II ......................................................... 42
WRITERS’ ROUNDTABLE ................................................... 38
YEARBOOK/MASS MEDIA I ............................................. 31
YEARBOOK/MASS MEDIA II ............................................ 32

YRA
21ST CENTURY THEMES I & II ............................................ 75
21ST CENTURY THEMES III ............................................... 75
A+ COMPUTER REPAIR I & II .......................................... 75
ALGEBRA II ................................................................. 45
APPLIED RESEARCH PROJECTS ....................................... 75
DIGITAL PORTFOLIO SEMINAR I & II ......................... 75
GEOMETRY ................................................................. 46
PROBABILITY & STATISTICS WITH DISCRETE MATHEMATICS .47
WEB APPLICATIONS ....................................................... 75
WEB DESIGN I & II ......................................................... 75
WEB DESIGN/FRESHMAN SEMINAR ................................. 75

SECONDARY PROGRAM OF STUDIES
The York County School Division does not discriminate on the basis of race (Title VI), color, religion, national origin, veteran status, sex, gender (Title IX), age or disability (Section 504), or any other protected class in its educational programs, activities or employment and provides equal access to the Boy Scouts and other designated youth groups. The following positions have been designated to handle inquiries regarding the non-discrimination policies:

### Title IX Coordinator
**Chief Human Resources Officer**  
302 Dare Road  
Yorktown, VA 23692  
757-898-0349

### Section 504/ADA Coordinator
**Director of Student Services**  
302 Dare Road  
Yorktown, VA 23692  
757-898-0300

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**School Board**

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<thead>
<tr>
<th>Name</th>
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<tr>
<td>Barbara S. Haywood</td>
<td>District 1</td>
<td>757-593-9071</td>
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<tr>
<td>Cindy Kirschke</td>
<td>District 2</td>
<td>757-812-8992</td>
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<tr>
<td>Mark A. Medford</td>
<td>District 3</td>
<td>757-898-7348</td>
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<tr>
<td>James E. Richardson</td>
<td>District 4</td>
<td>757-869-0573</td>
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<tr>
<td>Robert W. George, D.D.S.</td>
<td>District 5</td>
<td>757-897-1925</td>
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**School Division**

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<th>Name</th>
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<tr>
<td>Victor Shandor, Ed.D.</td>
<td>Division Superintendent</td>
<td>757-898-0310</td>
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<tr>
<td>Stephanie L. Guy, Ed.D.</td>
<td>Chief Academic Officer</td>
<td>757-898-0366</td>
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<tr>
<td>Dennis R. Jarrett, CPA, CPFO</td>
<td>Chief Financial Officer</td>
<td>757-898-0449</td>
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<tr>
<td>James Carroll, Ed.D.</td>
<td>Chief Human Resources Officer</td>
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<tr>
<td>Carl L. James, Ed.D.</td>
<td>Chief Operations Officer</td>
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**Instruction**

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<td>Elaine Gould, Ph.D.</td>
<td>Director of Student Services</td>
<td>757-898-0455</td>
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<tr>
<td>Candi Skinner</td>
<td>Director of Elementary Instruction</td>
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<tr>
<td>Anthony Vladu, Ed.D.</td>
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**Administration**

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<tr>
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<td>Catherine L. Jones, Ed.D.</td>
<td>Director of School Administration</td>
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