# Table of Contents

## Section I
- Education Plan ........................................................................................................................................................................ 1
- High School Program Planning Information .......................................................................................................................... 2
  - Career Pathways ........................................................................................................................................................................ 3
  - Dual Enrollment ........................................................................................................................................................................ 4
  - Career and Technical Education ............................................................................................................................................ 5
  - General Information on Course Selection ............................................................................................................................... 6
  - Advanced Placement (AP) ......................................................................................................................................................... 7
- High School Options ...................................................................................................................................................................... 8
  - The Governor’s School for Science and Technology ..................................................................................................................... 8
  - The International Baccalaureate (IB) Program .......................................................................................................................... 10
  - Early College Program in Newport News ................................................................................................................................... 12
  - Early Career Program in Newport News ................................................................................................................................... 12
- Magnet Schools .............................................................................................................................................................................. 13
  - Aviation Academy – Denbigh High School ................................................................................................................................. 13
  - Governor’s STEM Academy - Heritage High School .................................................................................................................. 13
  - University Magnet - Heritage High School ............................................................................................................................... 14
  - Governor’s Health Sciences Academy - Warwick High School ................................................................................................ 14
  - Arts & Communication Magnet – Woodside High School ......................................................................................................... 15
- Summer Institute for the Arts ......................................................................................................................................................... 15
- Point Option ................................................................................................................................................................................ 16
- Virtual Learning Program ............................................................................................................................................................. 17
- GED Options for High School Students ................................................................................................................................... 18

## Section II ................................................................................................................................................................................ 19
- Graduation Requirements (Policy IKF) .............................................................................................................................................. 20
  - Requirements for a Standard Diploma ..................................................................................................................................... 20
  - Requirements for an Advanced Studies Diploma .......................................................................................................................... 23
  - Governor’s Early College Scholars Program ............................................................................................................................. 25
  - Newport News Scholars Program ................................................................................................................................................ 26
  - Requirements for Other Diplomas .............................................................................................................................................. 27
- Course Credit ................................................................................................................................................................................ 29
  - Grade Point Average and Class Ranking of Secondary Students ................................................................................................ 33
  - Secondary Grading Scale ............................................................................................................................................................... 35

## Section III ............................................................................................................................................................................... 36
- You’ve Got Options ....................................................................................................................................................................... 37
  - Health & Physical Education ......................................................................................................................................................... 37
  - Personal Finance ............................................................................................................................................................................. 38
  - Advanced Placement Courses ..................................................................................................................................................... 39
  - High School Programs ................................................................................................................................................................. 40
  - Extended Learning ........................................................................................................................................................................ 42
  - Grade Point Average ................................................................................................................................................................... 44
- Academic Options Guide for Students ........................................................................................................................................... 45
  - High School Course Sequences ................................................................................................................................................ 45
  - Art Courses .................................................................................................................................................................................. 48
1. Refer to the Graduation Requirements in Section II of this guide.
2. Scan the Table of Contents and the rest of this guide to learn about your program choices.
3. Read carefully the courses and programs of interest.
4. List future courses in pencil and compare them to the graduation requirements that apply to you.
5. Answer the questions on the next page.
6. Remember – This is a working copy! You can, and probably will, make changes as you progress.

### Education Plan

<table>
<thead>
<tr>
<th>Grade 6</th>
<th>Grade 7</th>
<th>Grade 8</th>
<th>Grade 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year _____ – _____</td>
<td>Year _____ – _____</td>
<td>Year _____ – _____</td>
<td>Year _____ – _____</td>
</tr>
</tbody>
</table>

| English 6 |
| Math 6 |
| Science 6 |
| Social Studies 6 |

| Year _____ – _____ | Year _____ – _____ | Year _____ – _____ | Year _____ – _____ |

| English 7 |
| Math 7 |
| Science 7 |
| Social Studies 7 |

| Year _____ – _____ | Year _____ – _____ | Year _____ – _____ | Year _____ – _____ |

| English 8 |
| Math 8 |
| Science 8 |
| Social Studies 8 |

## Career Interests

<table>
<thead>
<tr>
<th>Grade 6</th>
<th>Grade 7</th>
<th>Grade 8</th>
<th>Grade 9</th>
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</thead>
</table>

| Career Interests: |
| Career Interests: |

| Educational Goals: |
| Educational Goals: |

| Summer Plans: |
| Summer Plans: |

<table>
<thead>
<tr>
<th>Grade 6</th>
<th>Grade 7</th>
<th>Grade 8</th>
<th>Grade 9</th>
</tr>
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</table>

| Summer Plan: |
| Summer Plan: |

| Year _____ – _____ | Year _____ – _____ | Year _____ – _____ | Year _____ – _____ |

### Educating Plan

1. Refer to the Graduation Requirements in Section II of this guide.
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3. Read carefully the courses and programs of interest.
4. List future courses in pencil and compare them to the graduation requirements that apply to you.
5. Answer the questions on the next page.
6. Remember – This is a working copy! You can, and probably will, make changes as you progress.
Colleges and employers look for more than a transcript of grades when considering an applicant. Although there are many ways to present yourself, the template below will help you to create a more attractive profile for the organization considering you as a student or employee.

<table>
<thead>
<tr>
<th>Objective: What do you want to do? What do you hope to achieve?</th>
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<tbody>
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</table>

<table>
<thead>
<tr>
<th>Skills: What can you do that makes you unique?</th>
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</table>

<table>
<thead>
<tr>
<th>Clubs/Organizations: To what organizations do you belong, and what leadership roles do you hold?</th>
</tr>
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<tbody>
<tr>
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</table>

<table>
<thead>
<tr>
<th>Work Experience: What jobs or internships (paid or unpaid) have you had? What responsibilities did you have at each?</th>
</tr>
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<tbody>
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<td></td>
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</table>

<table>
<thead>
<tr>
<th>Community Service: What have you done to help your community? i.e. working with the Red Cross, planning neighborhood gatherings, delivering campaign literature, etc.</th>
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</thead>
<tbody>
<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Interests: In what sports have you participated? What are your hobbies?</th>
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<tbody>
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<td></td>
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</tbody>
</table>
HIGH SCHOOL PROGRAM PLANNING INFORMATION

Preparation for College
All colleges have different entrance requirements. Before you select high school courses, check the requirements of several colleges that interest you. If you are undecided about a college, use the following guidelines in making your high school course selections.
1. Take four years of math and science. Most 4-year colleges require at least Algebra II for entrance.
2. Take at least three years of a world language. Many colleges do not list a world language requirement, but indicate that three or four years are highly desirable. Students wishing to take Advanced Placement French, German or Spanish as a senior must complete level I in the eighth grade.
3. Colleges prefer that students take the most challenging courses possible, pursue a full academic program for four years and demonstrate service to their community. Your course selections should be a reflection of your career pathway.
4. Students should take the PSAT in the 10th and/or 11th grade. If a four-year college is a part of your career pathway, then you should take the SAT (https://sat.collegeboard.org/home) and/or ACT (http://www.act.org) in the 11th and/or 12th grade.
5. Always seek the advice of your school counselor.

Preparation for Employment
There are numerous opportunities in Newport News Public Schools for students to prepare for entry into a career. In some cases, you may take a high school program that allows you to work in the afternoon and receive high school credit for your job. These programs are called cooperative education programs. Use the following general guidelines in choosing courses to prepare for employment.
1. Take Career and Technical Education (CTE) courses to find out which program is most interesting to you.
2. Choose a CTE pathway that interests you and ask your teacher or counselor the order in which you should take the courses in order to gain the necessary skills to work in that occupational area. In most cases, you will need to be enrolled in courses for at least two years to complete the program.
3. Plan your program to include the courses necessary to gain occupational skills and certifications. Also, include other courses that may be related to your chosen career pathway.
Career Pathways is a PK-12 approach that connects students to career exploration and development. Students investigate careers and participate in work-based learning experiences to advance their career goals. Career Pathways consist of 16 pathways focusing on a variety of careers.

**NNPS Pathways**

- Agriculture, Food & Natural Resources
- Architecture and Construction
- Arts, Audio/Visual Technology and Communications
- Business Management and Administration
- Education and Training
- Finance
- Government and Public Administration
- Health Science
- Hospitality and Tourism
- Human Services
- Information Technology
- Law, Public Safety, Corrections and Security
- Manufacturing
- Marketing
- Science, Technology, Engineering & Mathematics
- Transportation, Distribution & Logistics

**Excite**  
**Grades PK - 5**

Elementary students investigate a variety of careers and post-secondary opportunities to EXCITE learning.

**Explore**  
**Grades 6 - 8**

Middle school students EXPLORE career options to inform their academic choices and post-secondary education.

**Engage**  
**Grades 9 - 12**

High school students ENGAGE in practical experiences and develop skills for success in careers and post-secondary education.

**Pathway Experiences**

- Career Speakers
- College & Career Fairs
- Workplace Tours
- Career Clubs
- Job Shadowing
- Career Investigation Projects
- Mentors

- Career Exploration Course
- Pathways Portfolios
- Internships
- Virtual Job Shadowing
- Culminating Projects
- Service Learning
- Student Apprenticeships

**www.nnschools.org/careerpathways**

**College, Career and Citizen-Ready!**
DUAL ENROLLMENT

In partnership with Thomas Nelson Community College (TNCC), high school juniors and seniors may be eligible to receive college credit for courses taken in Newport News Public Schools. In order to dual enroll with Thomas Nelson, students must:

1. Apply online to TNCC at www.tncc.edu/apply,
2. Test for eligibility or provide SAT, ACT, PSAT, or Math SOL scores. Qualifying scores for admission to the program can be found at http://www.tncc.edu/dual. Thomas Nelson provides the Virginia Placement test at no charge to students. It is very important to take the placement test seriously and practice beforehand. Practice is available on TNCC’s website at http://www.tncc.edu/admissions/testing/prepare and
   • Students wishing to take MTH 163, 164, 173, 174, 180, 240, 277, 285; CHM 111, 112; PHY 241, 242 must take the math placement test regardless of standardized test scores. These courses are generally offered at the Governor’s School for Science and Technology.
3. Submit a Dual Enrollment College Registration Form by the registration deadline to your teacher. The courses listed below are currently offered for dual enrollment at NNPS, however not all courses are taught in all schools.

Students who complete dual enrollment courses receive both credit toward high school graduation and college credit on an official Thomas Nelson Community College transcript. These credits may be used to continue college at TNCC, or transfer to other institutions. For more information regarding dual enrollment opportunities, contact your school counselor for course and teacher availability.

Note: Courses must have a dual enrollment approved teacher to receive TNCC credit, and are subject to change.

<table>
<thead>
<tr>
<th>TNCC Courses</th>
<th>College Credits Earned</th>
<th>NNPS High School Course Name</th>
<th>NNPS Program Area &amp; Course Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 283</td>
<td>3</td>
<td>Computer Art II</td>
<td>AR1200</td>
</tr>
<tr>
<td>ENG111</td>
<td>3</td>
<td>AP Language &amp; Composition</td>
<td>English – EN3300</td>
</tr>
<tr>
<td>ENG 112</td>
<td>3</td>
<td>Honors English 12</td>
<td>English 12 – EN4200 (Early College Only)</td>
</tr>
<tr>
<td>MTH 163, 164</td>
<td>6</td>
<td>Honors Mathematical Analysis</td>
<td>Math – MA4100</td>
</tr>
<tr>
<td>MTH 240</td>
<td>3</td>
<td>AP Calculus</td>
<td>Math – MA4200, MA4300</td>
</tr>
<tr>
<td>HIS 121, 122</td>
<td>6</td>
<td>AP US History</td>
<td>Social Studies – SS3000</td>
</tr>
<tr>
<td>PLS 135</td>
<td>3</td>
<td>AP US Government</td>
<td>Social Studies – SS4300</td>
</tr>
</tbody>
</table>
CAREER AND TECHNICAL EDUCATION

In Newport News, Career & Technical Education (CTE) serves students in grades 6-12 and provides learning experiences in seven program areas:

- Business & Information Technology
- Family & Consumer Sciences
- Health & Medical Sciences
- Marketing Education
- Military Science
- Technology Education
- Trade & Industrial Education

These seven program areas offer over 70 different courses in some of the top career areas that exist globally. CTE students learn academic concepts in an applied instructional setting, which prepares them for success and enhanced earning potential in their chosen career fields. This instruction allows students to receive postsecondary education credits while completing their high school diploma requirements. Students participating in these dual enrollment and industry certification programs gain fundamental knowledge that facilitates a smooth transition into a college or career setting.

Industry Certification

All CTE courses prepare students for the possible Career and Technical Education Consortium of States Workplace Readiness Skills for the Commonwealth certification. This is a customized certification based on Virginia’s essential 21 Workplace Readiness Skills embedded in all CTE high school course frameworks. For the class of 2017 and beyond, an Industry Certification is required to graduate with a Standard Diploma.

Business & Information Technology

Courses in the Business & Information Technology program area prepare students for possible certifications in:

- Microsoft Office Specialist (MOS)
- Internet & Computing Core (IC3)
- Working in Support of Education (W!SE) Financial Literacy
- Microsoft Technology Associate (MTA)

Family & Consumer Sciences

Courses in the Family & Consumer Sciences program area prepare students for possible certifications in:

- American Association of Family & Consumer Sciences (AAFCS):
  - Broad Field Family & Consumer Sciences
  - Nutrition, Food & Wellness
  - Food Science Fundamentals

Health & Medical Sciences

Courses in the Health & Medical Sciences program area prepare students for possible certifications in:

- Project Lead the Way End-of-Course Tests
- Health Assisting Assessment
- Nurse Assisting Examination

Marketing

Courses in the Marketing program area prepare students for possible certifications in:

- National Retail Federation (NRF):
  - Customer Service & Sales
  - Advanced Customer Service & Sales

Military Science
Courses in the Military Science program area prepare students for possible certifications in:

- ASVAB (Armed Services Vocational Aptitude Battery) Examination

**Technology Education**

Courses in the Technology Education program area prepare students for possible certifications in:

- Autodesk Certified User:
  - AutoCAD
  - Autodesk Inventor
  - Autodesk Revit Architecture
- Microsoft Technology Associate (MTA) Software Development Fundamentals
- Project Lead the Way End-of-Course Tests

**Trade & Industrial Education**

Courses in the Trade & Industrial Education program area prepare students for possible certifications in:

- National Occupational Competency Testing Institute (NOCTI)
  - Television Production
  - Emergency and Fire Management Services
- Skills USA
- Criminal Justice and CSI Examination

**GENERAL INFORMATION ON COURSE SELECTION**

1. Every high school student makes a 4-year educational plan in the 9th grade that will lead to a career pathway. A copy of this plan is kept in the school counseling office and a copy is sent home to the parents. You should review and update your 4-year educational plan before making any course selections for the following year. Use the Education Plan form, found on page 2, as a guide.

2. Review carefully the course descriptions included in this guide. Share the information with your parents. If they have any questions regarding the courses or your course selections, they should contact your school counselor.

3. All students must carry a full schedule of classes.

4. **Two Courses in the Same Subject Area (Policy IIE)**

   A student will not be permitted to take two (2) required English courses at the same time except as permitted in this paragraph. If a student fails one semester of a required English course, the student will repeat that semester while enrolled in the next required course. A student who fails both semesters of a required English course will be required to repeat both semesters of the course before progressing to the next level. Students may take two English classes during the fourth year of high school if successful completion of the resulting schedule satisfies the requirements for graduation.

   Initial enrollment for a required English class will be permitted only during the regular school term. A student will not be permitted to register for a required English course for the first time in summer school.

   Students may be permitted to take U.S. History and Government at the same time; however, students should be encouraged and advised to take Virginia and U.S. History prior to taking Virginia and U.S. Government.

5. The school division offers several Biology II courses, many of which are semester courses in which a half credit is awarded upon successful completion. A student may use only one Biology II credit towards science requirements for graduation. If a student earns more than 1 credit in Biology II courses, he/she will receive elective credit for anything beyond 1 credit.
6. The deadline for enrolling in a new course is through the third week of the first nine weeks of any semester. Withdrawal during the second nine-week period is not permitted. If approved, the requested withdrawal could occur at the end of the first semester once final grades have been recorded.

7. NCAA: A student athlete who wishes to play sports at the college level must plan carefully, starting in the ninth grade, to ensure that he/she has met the high school requirements for eligibility to play sports in college. Student athletes preparing to participate in Division I or Division II college athletics should inform their school counselor and must register with the NCAA Clearinghouse. Applications are available on the NCAA Eligibility Center website at: www.ncaa.org/eligibilitycenter.

**ADVANCED PLACEMENT (AP)**

The Advanced Placement (AP) Examinations Program is a service provided by College Board. High school students may take college-level examinations each spring and, depending upon their scores, may be awarded college credit and/or advanced placement at participating colleges and universities. All NNPS students who take AP courses must take the corresponding AP test in order to earn the full weighted credit for the course. Newport News Public Schools will pay for AP tests to be given to all students enrolled in appropriate courses.

Advanced Placement Examinations are administered in May of each year. In June, the examinations are graded on a five-point scale: 5 = extremely well qualified; 4 = well qualified; 3 = qualified; 2 = possibly qualified; and 1 = no recommendation. In July, the scores are sent to the students, their designated colleges, and their home schools. Colleges that participate in the Advanced Placement Examinations Program will then consider full or partial credit for scores of three or better.

Students enrolled in an AP course must work at an AP level throughout the course and put forth their best effort on the tests to be successful. The benefits of taking Advanced Placement courses include:

- getting a head start on college-level work
- improving writing skills and sharpening problem-solving techniques
- developing the study habits necessary for tackling rigorous course work
- studying subjects in greater depth and detail
- the opportunity to earn credit or advanced standing at participating colleges and universities

Visit the College Board website for more information: https://apstudent.collegeboard.org/home.
HIGH SCHOOL OPTIONS

Students attending high school in Newport News have many options for study as they prepare for college and careers. Programs at the high school level develop both a strong foundation of general knowledge and skills and specialized competency in areas in which students have particular interests.

All Newport News high schools offer a comprehensive program to prepare students for work or further study at a college, university or technical program. Courses are offered in English, social studies, math, science, world languages, fine arts, physical education and many occupational specialties. All high schools offer Advanced Placement (AP) instruction and accelerated classes as well as a wide choice of athletics and other activities. Career and Technical Education (CTE) courses at all high schools offer a program that links academic and technical skills attainment. All NNPS high schools have met or exceeded the standards for full accreditation by the state of Virginia.

Newport News Public Schools offers the following types of high schools:
1. comprehensive schools – provide a complete and well-balanced educational program and serve children in specific neighborhoods or attendance zones
2. specialty academies – serve special needs of particular groups of students and have specific entrance requirements
3. magnet schools:
   - offer a specialized focus in the curriculum or distinctive type of environment or instruction
   - serve children from across the city (every child is eligible to apply)
   - are designed to maintain the racial balance of the student body

THE GOVERNOR’S SCHOOL FOR SCIENCE AND TECHNOLOGY

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. The Governor’s School provides a cohesive, innovative science and mathematics program that does the following:
- Embraces quality programming standards for gifted students recommended by the Virginia Department of Education and the National Association for Gifted Children
- Provides a cohesive sequence of courses in science, research, and mathematics
- Provides opportunities for social peer interaction, as well as career and college
- Provides leadership education and opportunities throughout the program

The Governor’s School is a two-year, half-day program for 11th and 12th graders. Additional courses will be taken at the home high school to complete an Advanced Diploma degree. 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:
- **The Engineering Strand** involves an intense, rigorous study of fundamental principles of engineering and calculus-based physics.
- **The Biological Science Strand** provides insights into organic and inorganic chemistry in conjunction with cell and molecular biology by employing advanced technologies utilized in medicine, forensic science and research labs.
- **The Computational Science and Engineering Strand** combines the study of structured and object-oriented programming with applications in practical, non-calculus based physics scenarios.
With small class sizes and advanced-degreed faculty, the learning environment at the Governor’s School is truly unique. Each course has been specifically structured to incorporate best practices for gifted students. Each strand requires completion of one year of high school biology, one year of high school chemistry and Algebra II/Trig prior to admission. For the engineering strand, students must have successfully completed Math Analysis (Pre-Calculus) prior to admission. All strands encompass a math course during both the junior and senior year. Placement in the appropriate math course will be determined upon admission at the end of 10th grade. 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.

In total, students will spend approximately three hours daily at the Governor’s School, taking three courses each year during the two-year program.

**Scientific Research Experience**
During their two years at the Governor’s School, students will experience hands-on science through classroom experimentation and individualized project research.

- The junior year research experience involves:
  - various aspects of research methodology,
    - ethics and statistics,
    - critical thinking skills,
    - scientific writing and communication skills and
    - a research project for submission to the Tidewater Science Fair.

- During the senior year, students participate in an Honors Research and Mentorship experience with a professional. Final projects are presented to the local scientific and professional community as a culminating experience in May. The opportunity to work with a professional in research is an invaluable experience toward career pursuits.

**Applied Leadership**
A variety of school activities, clubs and competitions provide students with opportunities to cultivate their leadership skills. Social interaction and community building are integral components of the program. The Student Advisory Board provides another opportunity for students to lead their peers in the organization of the program and school travel activities.

**Admissions Procedures**
Admission to the program is highly competitive. Test scores, teacher recommendations and course grades will be used to determine which students will be invited to participate in the Governor’s School Pre-Admissions Series offered in 9th and 10th grade. Designated students will take prerequisite courses offered at their high schools and will participate in informational sessions that will acquaint them with and prepare them for the two-year program. Final acceptance into the Governor’s School in the spring of their 10th grade year will be dependent on math and science GPAs, teacher recommendations and PSAT scores.

See the available courses for The Governor’s School for Science and Technology program in this guide.

For more information, visit the GSST web site at [www.nhgs.tec.va.us/governorsschool/](http://www.nhgs.tec.va.us/governorsschool/) or call 757-766-1100, ext. 3313.
The Pre-Admissions Series Program (PAS) for Students Entering 9th and 10th Grade

The Pre-Admissions Series Program is a program for high-achieving students who are seriously considering attending the Governor's School for Science and Technology. The PAS series is comprised of informational sessions, which taken together, will provide guidance to prospective GSST parents and students on how students can prepare themselves in 9th and 10th grade to gain acceptance and achieve success at both GSST and a competitive college. This PAS program aims to educate those students and their parents about:

- The program model of the GSST.
- The features of each of the three academic strands.
- The course prerequisites necessary for acceptance into each strand.
- How students can develop their talents in the classroom and beyond.
- How students can maximize their success in competitive college admissions.

How Do Students Apply?

Students can apply to the PAS in winter of their 8th or 9th grade year. Interested 8th or 9th grade students considering the PAS should complete an application and return it to their school counselor. Admission is highly competitive. Test scores, teacher recommendations and course grades are used to determine which students will be invited to participate in the PAS during their 9th or 10th grade years. Designated PAS students will take prerequisite courses offered in their high schools and will participate in a variety of activities that will acquaint them with GSST. If students and their parents decide that the GSST is a good match for their interests, they will submit a formal application to the GSST in their tenth grade year.

For more Pre-Admissions Series information, visit http://www.nhgs.tec.va.us/governorsschool/preadmissions.php or call 757-766-1100, ext. 3313.

The International Baccalaureate (IB) Program

The International Baccalaureate Diploma Program at Warwick 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 program provides a two-year curriculum and students could apply during their sophomore year, students generally apply for participation in Pre-Diploma classes in grades nine and ten. The course of studies for the first two years prepares students for this rigorous academic program.

Beginning in the junior year, IB students take weighted, college-level courses leading to IB exams. Other requirements of the IB Diploma include a 4,000-word essay and participation in extra-curricular or community service activities. Students interested in the IB Diploma program should complete level I of a modern world language and take algebra or geometry in eighth grade.

Transportation to Warwick High School is provided by the school division for all IB students.

Students sit for international assessments and, where appropriate, Advanced Placement (AP) exams to assist them in earning advanced standing or college credit. Many colleges recognize the IB program and offer academic credit for those who score well on the IB examinations.
The IB Program offers special features in addition to the traditional strengths of a liberal arts curriculum.

**Theory of Knowledge (TOK)**
TOK is a required interdisciplinary course intended to stimulate critical reflection upon the knowledge and experience gained inside and outside the classroom. TOK challenges students to question the bases of knowledge, to be aware of subjective and ideological biases and to develop a personal mode of thought based on analysis of evidence expressed in rational argument. The key element in the IBO's educational philosophy, Theory of Knowledge seeks to develop a coherent approach to learning which transcends and unifies the academic subjects and encourages appreciation of other cultural perspectives.

**Creativity, Activity, Service (CAS)**
CAS is a fundamental part of the diploma curriculum. The CAS requirement takes seriously the importance of life outside the world of scholarship, providing a refreshing counterbalance to the academic self-absorption some may feel within a demanding school program. Participation in theatre productions, sports, and community service activities encourages young people to share their energies and special talents while developing awareness, concern, and the ability to work cooperatively with others. The goal of educating the whole person and fostering a more compassionate citizenry comes alive in an immediate way when students reach beyond themselves and their books.

**Extended Essay**
Diploma candidates are required to undertake original research and write an extended essay of some 4,000 words. This project offers the opportunity to investigate a topic of special interest and acquaints students with the kind of independent research and writing skills expected at a university. There are currently 64 subjects, including 36 in the languages area, in which the essay may be written.

See the available courses in the International Baccalaureate (IB) Program in this guide.

For more information about the IB program, visit the program’s website at: [http://warwick.nn.k12.va.us/ib/](http://warwick.nn.k12.va.us/ib/).
EARLY COLLEGE PROGRAM IN NEWPORT NEWS

The Early College Program is a partnership between Newport News Public Schools and Thomas Nelson Community College. The program is offered to qualified high school seniors in Newport News Public Schools who are prepared and interested in accelerating their coursework toward a college degree after they graduate from high school. The courses offered within this program are all part of the Commonwealth College Course Collaborative, whereby Virginia public colleges and universities have agreed to accept transfer credit for these courses as part of their college’s general educational requirements.

Who is eligible?
- Students who are able to complete all high school Advanced Diploma requirements by the end of the first semester of their senior year.
- Students who successfully place into TNCC’s English 111 (College Composition I) and English 112 (College Composition II) through the TNCC placement test, and successfully complete both courses with a grade of “C” or better during the first semester of their senior year.
- 3.0 minimum grade point average

What are the benefits?
- Provides students the opportunity to earn up to 19 transferable college credits at a reduced tuition rate
- Reduces the amount of time needed to earn a college or university degree
- Textbooks and transportation are provided by NNPS
- A Newport News Public Schools academic advisor is housed on the campus of TNCC
- Academic support is available to each student by NNPS and TNCC
- Students may participate in their high school’s extra-curricular activities while attending TNCC

Website: http://www.nnschools.org/earlycollege/

EARLY CAREER PROGRAM IN NEWPORT NEWS

The Early Career Program is a partnership between Newport News Public Schools (NNPS) and Thomas Nelson Community College (TNCC). The program is designed for high school seniors who plan to pursue a vocational certificate after they graduate from high school. Seniors in this program may earn up to 19 semester hours of college credit prior to high school graduation.

Who is eligible?
- Students who are able to complete all high school standard diploma requirements by the end of the first semester of their senior year.
- Students who successfully place into TNCC’s English 111 and English 112 through the TNCC placement test, and successfully complete both courses with a grade of “C” or better during the first semester of their senior year.

What are the benefits?
- Increases career-readiness
- Supports transition to the workforce
- Provides opportunity to earn career training and up to 19 college credits
- Significant reduction in tuition rates for Spring semester of senior year
- Textbooks and transportation are provided by NNPS
- Students may participate in all high school activities while being a college student
- Ongoing support and tutoring provided
**MAGNET SCHOOLS**

In addition to the comprehensive curriculum, students can apply to magnet programs, which allow them to focus more intensely on their career and academic interests. These programs include the fine arts and communications magnet at Woodside High School, the Governor’s STEM Academy at Heritage High, the Governor’s Health Sciences Academy at Warwick High, the University magnet at Heritage and the Aviation magnet at Denbigh. **Students must apply to magnet programs.** Transportation is provided to all programs.

For a complete guide to the magnet process and more information, please see your school counselor or visit [http://sbo.nn.k12.va.us/magnet/](http://sbo.nn.k12.va.us/magnet/).

**Aviation Academy – Denbigh High School**

Students at the Denbigh Aviation Academy may take courses in the following program areas:

- Aerospace Engineering
- Aviation Technology
- Flight Operations
- Aviation Security and Safety

**Distinctive Features**

- "Airport campus" where students take Aviation classes; all other classes are conducted at Denbigh High School
- Small community of learning with a collegiate atmosphere
- Physics taught as a requirement in 10th grade
- Participate in community service, job shadowing and internships, and other leadership activities
- Profit from partnerships with business, higher education, professional and other groups
- State of the art facility that includes 3D printers, 3D scanners, a wind tunnel, multiple simulators and more
- Developing skillsets that all employees need to be successful in the workforce
- Multiple aircraft for students to work on as well as taxi on runway
- A true hands-on facility that mirrors the Aviation/Aerospace workspace

Website: [http://avi.nn.k12.va.us/](http://avi.nn.k12.va.us/)


**Governor’s STEM Academy - Heritage High School**

Students at the Governor’s STEM Academy at Heritage High School may take courses in the following program areas:

- Engineering and Robotics
- Computer Networking and Cybersecurity
- Computer Science and Game Design

**Distinctive Features**

Students will:

- Gain STEM literacy skills through an interdisciplinary curriculum that connects the four areas of science, technology, engineering and math
- Benefit from specialized, project-based courses which develop critical-thinking, problem-solving and decision-making skills, preparing them for the 21st century world
- Acquire greater communication skills and develop workplace readiness skills
- Receive opportunities to earn industry certifications preparing them to be more competitive in the workforce and when applying to advanced training schools or postsecondary institutions
- Obtain meaningful, real-life, hands-on experiences in their career pathway
• Profit from opportunities for internships, mentorships, job shadowing, and cooperative education, which provide students with advantages when entering postsecondary education and/or the workplace.

Website: [http://heritage.nn.k12.va.us](http://heritage.nn.k12.va.us)

**University Magnet - Heritage High School**

Students may take courses in the following program areas:

- Arts and Humanities
- Behavioral and Social Sciences
- Business/Marketing
- Mathematics and Science
- Natural Sciences
- Visual and Performing Arts

**Distinctive Features**

Students will:

- Acquire an Advanced Studies Diploma and explore various career pathways
- Complete at least six (6) Honors and/or Advanced Placement classes upon graduation to prepare them to be globally competitive
- Participate in community service, job shadowing and internships, and other leadership activities
- Profit from partnerships with business, higher education, industry professional and mentors

Website: [http://heritage.nn.k12.va.us/about.html](http://heritage.nn.k12.va.us/about.html)

**Governor’s Health Sciences Academy - Warwick High School**

Students at the Governor’s Health Sciences Academy at Warwick High School may take courses in the following program areas:

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

**Distinctive Features**

- Integrated curriculum helps students establish connections between mathematics, science and technology
- Opportunities to learn about careers through mentors, career and technical education student organizations, career clubs, work site visits, guest speakers, internships and job shadowing experiences
- Participate in health-related school events
- Receive opportunities to earn health science related industry certifications preparing them to be competitive in the work-force and when applying to advanced training schools or post-secondary institutions.
- Obtain real-life and hands-on experiences through the use of the diagnostic and clinical health science labs

Website: [http://warwick.nn.k12.va.us/](http://warwick.nn.k12.va.us/)
Arts & Communication Magnet – Woodside High School

Students may specialize in:
- Music – theory, musicianship, performing, composing, arranging
- Dance – with emphasis on ballet and modern dance, choreography, and dance history and theory
- Drama – acting, directing, producing, stagecraft, scenery, lighting, costumes
- Creative writing – create original poetry, prose, essays, scriptwriting, historical fiction and critical reviews
- Communications – journalism, television production, engineering and technology and public relations
- Visual arts:
  - Studio – painting, printmaking, drawing, ceramics, sculpture, mixed media
  - Technology – computer art, video as art, web design
  - Photography – darkroom and digital.

Distinctive Features
- Arts instruction at a depth, level, and rigor not found in other Newport News high schools
- Opportunities to pursue an intensive study of the arts to enhance the student’s overall academic program, including many extra arts opportunities such as: shows, field trips, visiting artists, master classes and more
- Chance to work and study with arts professionals
- Interdisciplinary study linking the arts with other disciplines
- Creative writers experience one-on-one conferences, peer evaluations, group readings, visiting authors and the Writing Center

Website: [http://woodside.nn.k12.va.us/magnet.html](http://woodside.nn.k12.va.us/magnet.html)

SUMMER INSTITUTE FOR THE ARTS

The Newport News Summer Institute for the Arts (SIA) offers an intensive six-week program in dance, drama, music and visual arts each summer. Students are selected by a panel of area artists and educators based on written applications, auditions, review or portfolios and interviews.

The Institute is normally held at Woodside High School with specialty workshops held throughout the city. Tuition is charged and will be announced in the spring. Classes normally meet 7:30 a.m. – 2:00 p.m., Monday through Thursday, June through August (specific dates to be announced). The staff consists of practicing artists, university staff and local educators.

Students, from rising eighth graders to high school seniors, residing in Newport News are eligible for the program. Students will receive one weighted credit (+.5 value) for completing an Institute course.

Students may pick up application forms and audition information from any fine or performing arts teacher or from the school counseling office in the spring. Completed applications must be returned to the school counseling office sometime in March, and auditions are usually in April. For more information, please call 757-591-4561 or 757-591-4911.
**Institute Programs**

**Dance** – Students will study ballet, jazz and modern dance. Course work will include dance history, a survey of dance forms and a study of pivotal performers. Workshops will be offered in folk and ethnic dance, character dance, improvisation and personal grooming for dance activities.

**Visual Arts** – Students will be given concentrated instruction and experiences in drawing as the basis for all other art skills. Art history and appreciation, including instruction and field trips to area galleries and museums will be included. Workshop opportunities in painting, sculpture, computer graphics and other media will be offered.

**Music** – The program will include instruction and performance in vocal or instrumental music. Additional studies will include music theory, the evolution of music, composition and arranging. Workshops in conducting, opera, musical theater, electronic music, recording techniques, career opportunities and related areas will be offered.

**Drama** – Students will receive advanced level instruction in voice, diction, stage movement, stagecraft and design, character development and acting. Workshops in stage combat, mime, improvisation, Shakespeare, musical theater, summer theater, puppetry, auditioning, lighting and set design, directing and careers in drama will be offered.

**Program Objectives**
- To develop the unique talents of students
- To provide a forum for the display of student’s works
- To enhance student’s abilities to analyze, interpret and evaluate the arts
- To increase student’s awareness of career opportunities in the arts

**Point Option**

The Point Option High School program began in 1973 and offers a unique opportunity for students in grades 9-12 to experience teaching and learning in a non-traditional way. It also offers students of ability and determination a “second chance” to recapture credits and/or to accelerate their graduation to enter the workforce or postsecondary education. As a small teaching and learning community of 90-100 students, Point Option emphasizes personal responsibility and self-reliance as keys to student success. Students choosing to attend will be held to the highest ethical and behavioral standards.

The program is dedicated to the education of the whole person while offering youth who struggle to fit into the traditional high school environment a viable opportunity for success. Point Option is a specialty center, offering NNPS students a high school program designed to engage, empower through cross-curriculum projects, community connections and experiential learning.

Point Option is a “school of choice” requiring an application process. It differs from the comprehensive high school by offering smaller class sizes, flexibility in scheduling students, distance learning opportunities, weekly science field trips, an on-site fitness center, an outdoor education program, and daily scheduled teacher-led tutoring sessions in all subject areas both during and after school. Students in good standing may remain at Point Option to complete all graduation requirements while receiving their diploma from their zoned school upon completion of those requirements.

**Admission Process**

Students must complete and submit an application for admission and attend an interview with the Principal and School Counselor.
The online application can be found at [http://pointoption.nn.k12.va.us/](http://pointoption.nn.k12.va.us/) in the “Families” section.

**VIRTUAL LEARNING PROGRAM**

The **Virtual Virginia Advanced Placement Online School** is offered to Newport News Public School students using distance learning technologies. The full-year courses are designed in conjunction with the College Board and the Advanced Placement Program. The Virtual Advanced Placement School (VAPS) provides the flexibility of scheduling an Advanced Placement course anytime during the school day and online students may be enrolled in a class with students from other high schools or other school divisions. Each Newport News high school will determine what courses are available for a student to take.

Besides being academically prepared for the rigor of an AP course, students taking an online AP course need to have the following traits for success:

- Self-motivated to keep up with course work with minimal supervision
- Able to communicate through writing
- Able to stay on task
- Able to meet deadlines
- Willing to ask for assistance when needed
- Comfortable with computer usage including keyboarding skills, knowledge of email and using a web browser
- Able to think ideas through before responding
- Believe that high quality learning can take place without going to a traditional class

All online AP courses use the Virtual Virginia web portal software. Within Virtual Virginia course materials may include video segments, audio clips, whiteboard, online discussions and online reflective journals. Many courses also include traditional textbooks as a part of the learning materials.

The school provides computer access during school hours and after school. Although a home computer and Internet access are not a requirement, it is strongly encouraged. All courses are available 24 hours a day.

Students attending Newport News Public Schools may enroll and take the online AP Courses.

<table>
<thead>
<tr>
<th>Online Advanced Placement Course</th>
<th>Full Year/1 credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Art History</td>
<td>AP Environmental Science</td>
</tr>
<tr>
<td>AP Biology</td>
<td>AP French Language</td>
</tr>
<tr>
<td>AP Calculus AB</td>
<td>AP Human Geography</td>
</tr>
<tr>
<td>AP Calculus BC</td>
<td>AP Physics B</td>
</tr>
<tr>
<td>AP Chemistry</td>
<td>AP Psychology</td>
</tr>
<tr>
<td>AP Government &amp; Politics: Comparative</td>
<td>AP Spanish Language</td>
</tr>
<tr>
<td>AP Government &amp; Politics: U.S.</td>
<td>AP Statistics</td>
</tr>
</tbody>
</table>

For more information, see your school counselor or visit the Virtual Virginia website at [http://www.virtualvirginia.org/](http://www.virtualvirginia.org/).
GED OPTIONS FOR HIGH SCHOOL STUDENTS

While Newport News Public Schools would like to see all students graduate with a standard diploma, we realize that some students face challenges that make it difficult to meet that goal. As students become older and encounter circumstances that put them behind in their studies, they may begin to see graduation as an unreachable goal. Some students think about dropping out; however, NNPS would like these students to consider other options for gaining a high school credential.

If a standard diploma is no longer a realistic goal for you, please consider the General Educational Development (GED) program. The GED is recognized by over 90% of employers and accepted by a majority of colleges and universities. It is considered the equivalent of a high school diploma in many states. Those students who are at least 16-18 years of age and significantly behind in their progress toward graduation should consider an Individual Student Alternative Education Plan (ISAEP). GED instruction is available to Newport News Public Schools students through an ISAEP. Parental/guardian permission is required if under the age of 18.

To enter the high school GED program, students must complete an application and take a battery of 4 computer based tests consisting of: science, social studies, math and reasoning through language arts. Sixteen year old students must score a minimum of 145 in 3 subjects and a minimum of 140 in the fourth subject, as well as a 7.5 on the TABE reading test before entering the ISAEP program.

For answers to your questions about the program, contact your guidance department or the Program Administrator of Outreach Services, Jane Moreland, at 757-928-6765, ext. 38840.
GRADUATION REQUIREMENTS (POLICY IKF)
To graduate from high school, a student will meet the minimum requirements set forth by the Virginia Department of Education.

REQUIREMENTS FOR A STANDARD DIPLOMA
To graduate with a Standard Diploma, students must earn 22 standard units of credit described in the table below, and of the standard units of credit earned, students will earn the following number of verified units of credit:

1. **Students entering 9th grade for the first time before 2018-2019:** English-two; math-one; science-one; history/social science-one; and one additional verified unit of credit of the student’s own choosing.

2. **Students entering the 9th grade for the first time in 2018-2019 or later:** English-two; math-one; science-one; history/social science-one.

Students who complete the requirements for a standard diploma with a cumulative grade point average of 3.60 or better at the end of their senior year will receive a Board of Education Seal on the diploma.

1. **Credits Required for Graduation with a Standard Diploma**
   Beginning with students entering ninth grade for the first time in 2013-2014, a student must also:
   1. Earn a board-approved career and technical education credential. The credential could include, but not be limited to, the successful completion of an industry certification, state license exam, a national occupational competency assessment, or the Virginia workplace readiness skills assessment.
   2. Successfully complete one virtual course, which may be non-credit bearing.
   Beginning with students entering ninth grade for the first time in 2018-2019, a student must also:
   1. Complete an Advanced Placement, honors, or International Baccalaureate course or earn a career and technical education credential that has been approved by the Board, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to earn credit. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness skills assessment.
   2. Successfully complete one virtual course, which may be non-credit bearing.
<table>
<thead>
<tr>
<th>Discipline Area</th>
<th>Units of Credit</th>
<th>Units of Credit Beginning with 9th Graders 2011-2012</th>
<th>Number of these Required to be Verified with 9th Graders 2011-2012 to 2017-2018</th>
<th>Number of these Required to be Verified with 9th Graders 2018-2019 and later</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics(^1)</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Laboratory Science(^2,6)</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>History and Social Sciences(^3,6)</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Health and Physical Education</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign Language, Fine Arts or Career and Technical Education(^7)</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Economics and Personal Finance</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Electives(^4)</td>
<td>6</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student Selected Test(^5)</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>22</td>
<td>22</td>
<td>6</td>
<td>5</td>
</tr>
</tbody>
</table>

\(^1\) Courses completed to satisfy this requirement shall include at least two different course selections from among: Algebra I, Geometry, Algebra, Functions, and Data Analysis, Algebra II, or other mathematics courses above the level of Algebra II. The board shall approve courses to satisfy this requirement.

\(^2\) Courses completed to satisfy this requirement shall include course selections from at least two different science disciplines: earth sciences, biology, chemistry, or physics, or completion of the sequence of science courses required for the International Baccalaureate Diploma. The board shall approve courses to satisfy this requirement.

\(^3\) Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, and one course in either world history or geography or both. The board shall approve courses to satisfy this requirement.

\(^4\) For the 2011-2012 academic year and beyond: Courses to satisfy this requirement shall include at least two sequential electives as required by the Standards of Quality.

\(^5\) A student may utilize additional tests for earning verified credit in computer science, technology, career and technical education, economics or other areas as prescribed by the board in 8VAC20-131-110.

\(^6\) For the 2011-2012 academic year and beyond: Students who complete a career and technical education program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association, or acquires a professional license in a career and technical education field from the Commonwealth of Virginia may substitute the certification, competency credential, or license for (i) the student-selected verified credit and (ii) either a science or history and social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the Board of Education as an additional test to verify student achievement.

\(^7\) For the 2011-2012 academic year and beyond: Pursuant to § 22.1-253.13:4 of the Code of Virginia, credits earned for this requirement shall include one credit in fine or performing arts or career and technical education.

2. **Sequential Electives**
   Beginning with the graduating class of 2003, at least two sequential electives are required for the Standard Diploma. Sequential electives may be in any discipline as long as the courses are not specifically required for graduation.
   - Courses used to satisfy the one unit of credit in a fine arts or career and technical education course may be used to partially satisfy this requirement.
   - An exploratory course followed by an introductory course may not be used to satisfy the requirement.
   - An introductory course followed by another level of the same course of study may be used.
   - Sequential electives do not have to be taken in consecutive years.

3. **Locally Awarded Verified Credits for the Standard Diploma**
   - Students entering 9th grade prior to 2018-2019 may be awarded locally verified credits in any subject up to three times to fulfill the requirements for verified credits for the standard diploma. To be eligible for locally awarded verified credit, a student must:
     - pass the high school course but not pass the related Standards of Learning test or approved substitute;
     - score within a 375-399 scale score range on any administration of the Standards of Learning test after taking the test at least twice;
     - have earned fewer than four of the verified credits required for the standard diploma; and
demonstrate achievement in the academic content through the appeal process that follows.

In the appeal process for the student, a review panel will be established at the school consisting of an administrator, the School Counseling Director, and the Lead Teacher for the appropriate content area. The panel will review the student’s record for the course in question and grant the verified credit if the student has met the eligibility criteria listed above.

No more than three verified credits may be awarded through this process. Students entering 9th grade prior to 2018-2019 may not use locally awarded verified credits for the Advanced Studies Diploma.

- Students entering 9th grade 2018-2019 and after may be awarded **one** locally verified credits in any subject to fulfill the requirements for verified credits for a standard or advanced diploma. To be eligible for locally awarded verified credit, a student must:
  - pass the high school course but not pass the related Standards of Learning test or approved substitute;
  - score within a 375-399 scale score range on any administration of the Standards of Learning test after taking the test at least twice;
  - have earned fewer than four of the verified credits required for the standard diploma; and
  - demonstrate achievement in the academic content through the appeal process that follows.

In the appeal process for the student, a review panel will be established at the school consisting of an administrator, the School Counseling Director, and the Lead Teacher for the appropriate content area. The panel will review the student’s record for the course in question and grant the verified credit if the student has met the eligibility criteria listed above.

4. **Locally Awarded Verified Credits for Students with Disabilities**

Students with disabilities who are eligible for credit accommodations, as stipulated in each student’s IEP (Individual Education Plan)/504 plan, may be awarded locally verified credits in English and mathematics. (All students who meet certain criteria may be eligible for locally awarded verified credits in science and social studies in accordance with section #3 above.) To be eligible to earn locally awarded verified credits in English, mathematics, science and social studies, a student with a disability must:

- Pass the high school course;
- score within a 375-399 scale score range on any administration of the Standards of Learning test after taking the test at least twice; and
- demonstrate achievement in the academic content through an appeal process administered at the local level.

In the appeal process for the student, a review panel will be established by the Superintendent, or his/her designee. The panel will review the student’s record for the course in question and grant the verified credit if the student has met the eligibility criteria listed above. There is no set maximum number of certified credits that a student with a disability may be awarded through this process. Students may not use locally awarded verified credits for the Advanced Studies Diploma. Students entering 9th grade 2018-2019 and beyond may only use one locally awarded Verified Credit towards an Advanced Diploma.
REQUIREMENTS FOR AN ADVANCED STUDIES DIPLOMA

1. To graduate with an Advanced Diploma, students must earn 26 standard units of credit described in the table below, and of the standard units of credit earned, students will earn the following number of verified units of credit:
   - Students entering 9th grade for the first time before 2018-2019: English-two; math-two; science-two; history/social science-two; and one additional verified unit of credit of the student’s own choosing
   - Students entering the 9th grade for the first time 2018-2019 or later: English-two; math-one; science-one; history/social science-one.

2. Students who complete the requirements for an Advanced Studies Diploma with an average grade of 3.00 or better at the end of their senior year and successfully complete college-level coursework that will earn the student at least nine transferable credits in Advanced Placement (AP), International Baccalaureate (IB), or dual enrollment courses will receive the Governor’s Seal on the diploma.

3. Beginning with students entering ninth grade for the first time in 2013–2014, a student must successfully complete one virtual course, which may be non-credit bearing.

4. Students entering 9th grade for the first time in 2018-2019 or later must complete an Advanced Placement, honors, or International Baccalaureate course or earn a career and technical education credential that has been approved by the Board, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to earn credit. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness skills assessment.

Credits Required for Graduation for an Advanced Diploma

<table>
<thead>
<tr>
<th>Discipline Area</th>
<th>Units of Credit</th>
<th>Units of Credit Beginning with 9th Graders 2011-2012</th>
<th>Number of these Required to be Verified with 9th Graders 2011-2012 to 2017-2018</th>
<th>Number of these Required to be Verified with 9th Graders 2018-2019 and after</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
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<td>2</td>
</tr>
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<td>Mathematics¹</td>
<td>4</td>
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<tr>
<td>Laboratory Science²</td>
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<tr>
<td>History and Social Sciences³</td>
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<tr>
<td>Foreign Language⁴</td>
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<tr>
<td>Health and Physical Education</td>
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<tr>
<td>Fine Arts or Career and Technical Education</td>
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<td></td>
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<tr>
<td>Economics and Personal Finance</td>
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</tr>
<tr>
<td>Electives</td>
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<tr>
<td>Student Selected Test⁵</td>
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<tr>
<td>Total</td>
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<td>5</td>
</tr>
</tbody>
</table>

¹Courses completed to satisfy this requirement shall include at least three different course selections from among: Algebra I, Geometry, Algebra II, or other mathematics courses above the level of Algebra II. The board shall approve courses to satisfy this requirement.

²Courses completed to satisfy this requirement shall include course selections from at least three different science disciplines from among: earth sciences, biology, chemistry, or physics or completion of the sequence of science courses required for the International Baccalaureate Diploma. The board shall approve additional courses to satisfy this requirement.

³Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, and two courses in either world history or geography or both. The board shall approve additional courses to satisfy this requirement.

⁴For the 2010-2011 academic year only: Courses completed to satisfy this requirement shall include three years of one language or two years of two languages.

⁵A student may utilize additional tests for earning verified credit in computer science, technology, career or technical education, economics or other areas as prescribed by the board in 8VAC20-131-110.
Requirements for Diploma Seals from the Board of Education

1. **Requirements for the Governor's Seal**
   The Governor's Seal shall be awarded to students who complete the requirements for an Advanced Studies Diploma with an average of "B" or better and successfully complete college-level coursework that will earn the student at least nine transferable college credits in Advanced Placement (AP), International Baccalaureate (IB), Cambridge, or dual enrollment courses.

2. **Requirements for a Board of Education's Seal**
   Students who complete the requirements for a Standard Diploma or Advanced Studies Diploma with an average grade of "A" shall receive a Board of Education Seal on the diploma.

3. **Requirements for Board of Education's Career & Technology Education Seal**
   The Board of Education's Career and Technical Education Seal will be awarded to students who earn a Standard or Advanced Studies Diploma and complete a prescribed sequence of courses in a career and technical education concentration or specialization that they choose and maintain a "B" or better average in those courses.
   a. or pass an examination or an occupational competency assessment in a career and technical education concentration or specialization that confers certification or occupational competency credential from a recognized industry, trade or professional association
   b. or acquire a professional license in that career and technical education field from the Commonwealth of Virginia. The Board of Education shall approve all professional licenses and examinations used to satisfy these requirements.

4. **Requirements for Board of Education's Seal of Advanced Mathematics and Technology**
   The Board of Education's Seal of Advanced Mathematics and Technology will be awarded to students who earn either a Standard or Advanced Studies Diploma.
   a. and satisfy all of the mathematics requirements for the Advanced Studies Diploma (four units of credit including Algebra II, two verified units of credit) with a “B” average or better
   b. and do one of the following
      • pass an examination in a career and technical education field that confers certification from a recognized industry, or trade or professional association
      • acquire a professional license in a career and technical education field from the Commonwealth of Virginia
      • pass an examination approved by the Board that confers college-level credit in a technology or computer science area. The board of education shall approve all professional licenses and examinations used to satisfy these requirements.

5. **Requirements for a Board of Education's Seal for Excellence in Civics Education**
   The Board of Education’s Seal for Excellence in Civics Education will be awarded to students who earn either a Standard or Advanced Studies diploma and
   a. complete Virginia and United States History and Virginia and United States Government courses with a grade of “B” or higher
   b. have good attendance and no disciplinary infractions as determined by local school board policies
   c. complete 50 hours of voluntary participation in community service or extracurricular activities.

   Activities that would satisfy this requirement include:
   • volunteering for a charitable or religious organization that provides services to the poor, sick or less fortunate;
   • participating in Boy Scouts, Girl Scouts, or similar youth organizations;
   • participating in JROTC;
   • participating in political campaigns or government internships, or Boys State, Girls State, or Model General Assembly; or
• participating in school-sponsored extracurricular activities that have a civics focus. Any student who enlists in the United States military prior to graduation will be deemed to have met this community service requirement.

6. Requirements for Board of Education’s Seal of Biliteracy
The Board of Education’s Seal of Biliteracy will be awarded to students who earn a Board of Education-approved diploma and:
   a. pass all required End-of-Course Assessments in English reading and writing at the proficient or higher level;
   b. and are proficient at the intermediate-mid level or higher in one or more language other than English, including American Sign Language, as demonstrated through an assessment from a list to be approved by the Superintendent of Public Instruction

GOVERNOR’S EARLY COLLEGE SCHOLARS PROGRAM
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. The result is a more productive senior year and a substantial reduction in college tuition. Students earning a college degree in seven semesters instead of eight can save an average of $5,000 in expenses.

To qualify for the Early College Scholars program, a student must:
• have a "B" average or better;
• be pursuing an Advanced Studies Diploma; and
• take and complete college-level course work (i.e., Advanced Placement, International Baccalaureate, Cambridge, or dual enrollment) that will earn at least 15 transferable college credits.

Early College Scholars are supported by Virtual Virginia and the Commonwealth College Course Collaborative. Virtual Virginia provides statewide access to college-level courses while the Commonwealth College Course Collaborative defines the subjects high school students can complete and receive college degree credit from participating public and private colleges and universities.

See your school counselor for more information or visit the following website: http://www.doe.virginia.gov/instruction/graduation/early_college_scholars/index.shtml. The Governor’s Early College Scholars Program agreement can be found at the back of this book.
NEWPORT NEWS SCHOLARS PROGRAM

1. The NNPS Scholars Program is designed to provide an academically challenging and intellectually stimulating advanced course of study; to recognize students' academic achievements beyond the advanced requirements for graduation; and to further enhance the NNPS Advanced Placement course offerings. The Superintendent's Seal of Distinction will be awarded on the diplomas of students who successfully complete the Scholars Program.

2. Requirements for the Scholars Program include:
   a. All requirements for the NNPS Advanced Studies Diploma
   b. As part of the graduation requirements, at least five Advanced Placement courses (at least one for each core content area – English, social studies, science, and mathematics – as well as a dual enrollment (college course) or an additional Advanced Placement course must be included in the student's program of study to qualify for a Scholars Seal. The Advanced Placement examination must be taken for all Advanced Placement credits applied toward the Scholars Program.
   c. A four-course sequence in at least one world language.
   d. Projects. The student must individually complete both of the following requirements:
      1. Individual Scholars Project – research paper/project or multi-media project.
         • The Scholars Project must be pre-approved by the Division Scholars Committee. This committee will meet three times during each academic year, and the proposal should be submitted one week prior to an announced meeting date for consideration at that meeting.
         • The project will be selected by the student in an area of his/her interest.
         • The project must go beyond requirements for any course taken while in high school. International Baccalaureate senior papers and other senior projects may be expanded to meet the Scholars Project requirement.
         • The project must have a tangible product such as an advanced research paper/thesis, a complex multi-media project, or a specialized portfolio.
         • The project must culminate in a formal Scholars Presentation before an audience. The Scholars Project and presentation must be given no later than the end of the third quarter of the senior year.
         • The Scholars Project presentation should be a minimum of 15 minutes and a maximum of 30 minutes. A question and answer period should follow the presentation.
      2. One hundred hours of elective community service which should be completed by the end of the eleventh grade. "Community Service" for this project is defined as, "Voluntary unpaid work for the good of others." The following guidelines describe hours that may be used for this community requirement.
         • Community service for this project must directly benefit the citizens of Newport News.
         • The 100 hours must be served on one focused service project in the area of the student's choice. The project should demonstrate a commitment, which is served over at least six sessions.
         • A plan for the community service project must be presented to and be pre-approved by the Division Scholars Committee. The project proposal may be presented for approval as early as the freshman year, but no later than May 15 of the junior year.
         • Community service hours credited toward the Scholars Program must be beyond hours required by any course, extra-curricular activity, or other school or community program requirement.
         • No monetary compensation may be received by the student for these hours.
         • A log of hours verified by the supervising adult from the appropriate community organization must be turned in to the Scholars Program Coordinator (suggested completion by the end of the student's eleventh grade year).
         • The student will meet with the Scholars Committee to reflect on the community service experience at one of the three annual Scholars Committee meetings.
• Adjustments to the required timeline will be considered on a case-by-case basis for students who transfer into NNPS during the 11th or 12th grade year.

3. The Scholars Project and elective community service may be coordinated as two components of a single project.

See your school counselor for more information. The Newport News Program Application can be found at the back of this book.

**Requirements for Other Diplomas**

1. **Requirements for the Modified Standard Diploma** (Effective for students entering the ninth grade prior to the 2013-2014 school year)
   a. Every student will be expected to pursue a Standard Diploma or Advanced Studies Diploma. The Modified Standard Diploma program is intended for certain students at the secondary level who have a disability and are unlikely to meet the credit requirements for a Standard Diploma. Eligibility and participation in the Modified Standard Diploma program shall be determined by the student's Individualized Education Program (IEP) team including the student, where appropriate, at any point after the student's eighth grade year.
   b. The school must secure the informed written consent of the parent/guardian and the student to choose this diploma program after review of the student's academic history and full disclosure of the student's options.
   c. The student who has chosen to pursue a Modified Standard Diploma shall also be allowed to pursue the Standard or Advanced Studies Diploma at any time throughout that student's high school career, and the student must not be excluded from courses and tests required to earn a Standard or Advanced Studies Diploma.
   d. Students pursuing the Modified Standard Diploma will pass the 8th grade English (Reading, Literature, and Research) and mathematics Standards of Learning tests to meet the literacy and numeracy requirements. Students may substitute a higher-level Standards of Learning test (i.e., end of course English [Reading], Algebra I, Algebra, or Geometry) for the 8th grade SOL tests in English (Reading, Literature, and Research) and mathematics or other substitute tests approved by the Virginia Board of Education.

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Standard Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics¹</td>
<td>3</td>
</tr>
<tr>
<td>Science²</td>
<td>2</td>
</tr>
<tr>
<td>History and Social Science³</td>
<td>2</td>
</tr>
<tr>
<td>Health and Physical Education</td>
<td>2</td>
</tr>
<tr>
<td>Fine Arts or Career and Technical Education</td>
<td>1</td>
</tr>
<tr>
<td>Electives⁴</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>20</strong></td>
</tr>
</tbody>
</table>

¹Courses completed to satisfy the Mathematics requirement will include content from among applications of algebra, geometry, personal finance, and statistics in courses that have been approved by the Virginia Department of Education (VDOE).

²Courses completed to satisfy the Science requirement will include content from at least two of the following: applications of earth science, biology, chemistry, or physics in courses approved by the VDOE.

³Courses completed to satisfy the History and Social Sciences requirement will include one unit of credit in U.S. and Virginia History and one unit of credit in U.S. and Virginia Government in courses approved by the VDOE.

⁴Courses to satisfy the Electives requirement will include at least two sequential electives in the same manner for the Standard Diploma.
2. Requirements for the Applied Studies Diploma
Students identified as disabled who meet the requirements of their individualized education programs, but do not meet the requirements for the Advanced Studies Diploma, Standard Diploma, or Modified Standard Diploma, will be awarded an Applied Studies Diploma.

3. Requirements for the General Achievement Adult High School Diploma
   a. The General Achievement Adult High School Diploma is an option for high school dropouts and individuals who exit high school without a diploma. Individuals who are at least 18 years of age and not enrolled in public schools or not otherwise meeting the compulsory school attendance requirements set forth in the code of Virginia shall be eligible to earn the General Achievement Adult High School Diploma.
   b. The required number of standard units of credit may be earned by enrolling in a public school if the individual meets the age requirements, a community college or other institution of higher education, an adult high school program, or correspondence, distance learning, and online courses.
   c. Credit and assessment requirements for the General Achievement Diploma are as follows:
      1. Successfully completes the GED program that meets Virginia Board of Education (VBOE) requirements.
      2. Earns a VDOE-approved career and technical credential, such as the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia Workplace Readiness Skills Assessment.
      3. Successfully completes the following courses that incorporate or exceed the applicable Standards of Learning:

<table>
<thead>
<tr>
<th>Discipline Area</th>
<th>Standard Units of Credit Required</th>
<th>Assessment Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Mathematics¹</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Science²</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>History and Social Sciences³</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Electives⁴</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>20</td>
<td>passing score on GED Examination</td>
</tr>
</tbody>
</table>

¹Courses completed to satisfy the Mathematics requirement will include content in mathematics courses that incorporate or exceed the content of courses approved by the VBOE to satisfy any other VBOE-recognized diploma.

²Courses completed to satisfy the Science requirement will include content in science courses that incorporate or exceed the content of courses approved by the VBOE to satisfy any other VBOE-recognized diploma.

³Courses completed to satisfy the History and Social Sciences requirement will include one unit in U. S. and Virginia History and one unit of credit in U. S. and Virginia Government in courses that incorporate or exceed the content of courses approved by the VBOE to satisfy any other VBOE-recognized diploma.

⁴Courses to satisfy the elective requirements shall include at least two sequential electives in an area of concentration or specialization, which may include career and technical training.

4. Requirements for an Adult High School Diploma
   a. Adult high school diplomas may be granted to students not subject to the compulsory attendance requirements of § 22.1-254 of the Code of Virginia.
   b. Credit
      1. Satisfactory completion of 108 hours of classroom instruction in a subject shall constitute sufficient evidence for one unit of credit toward a high school diploma.
2. When, in the judgment of the principal or the superintendent, an adult not regularly enrolled in the grades 9 through 12 high school program is able to demonstrate by examination or other objective evidence, satisfactory completion of the work, the adult may receive credit in accordance with policies and procedures of the School Board. It is the responsibility of the school division to document the types of examinations employed or other objective evidence used, the testing or assessment procedures, and the extent of progress in each case.

3. Credits earned in adult high school programs shall be transferable as prescribed in the “Regulations Establishing Standards for Accrediting Public Schools in Virginia” within the schools of the school division and shall be transferable to public secondary schools outside the sponsoring school division.

c. Diploma

1. A diploma, as provided by VDOE regulation, shall be awarded to an adult who completes all requirements of the diploma regulated by the VDOE, with the exception of health and physical education requirements in effect at the time the adult graduates.

2. An adult high school diploma shall be awarded to an adult student who completes the course credit requirements in effect for a VBOE diploma, with the exception of health and physical education requirements, at the time the adult student first entered the ninth grade. The requirement for specific assessments may be waived if the assessments are no longer administered to students in Virginia public schools.

3. An adult high school diploma shall be awarded to an adult student who demonstrates though applied performance assessment full mastery of the National External Diploma Program Competencies, as promulgated by the American Council on Education and validated and endorsed by the United States Department of Education.

5. Certificate of Program Completion

Students in each of the categories noted below will be given a Certificate of Program Completion and will not be permitted to participate in the school commencement exercises:

- Students who successfully complete all academic coursework required for either the Advanced Studies or Standard Diplomas, but who have not yet obtained the necessary verified credits required by the state for the awarding of a diploma.

- Students with disabilities who successfully complete all academic coursework required for the Modified Standard Diploma, but who have not earned passing scores on the eighth grade reading and mathematics SOL tests.

Students who are awarded a Certificate of Program Completion may continue to take the Standards of Learning tests needed to upgrade their certificate to a diploma.

COURSE CREDIT

1. Alternative Methods of Granting Credit

The standard unit of credit for graduation is based on a minimum of 140 clock hours of instruction. Certain nontraditional learning environments such as alternative learning centers or residential treatment centers offer credits based on other criteria. Students entering Newport News Public Schools from such nontraditional institutions may receive credit towards graduation upon review of their transcript by the Assistant Superintendent for Instructional Services to ensure that the content of the course for which credit is awarded is comparable to 140 clock hours of instruction and upon validation of competency. The Director of Curriculum and Instruction will implement procedures permitting school principals to grant credit when it is evident that the course content from the former institution is comparable to 140 clock hours of instruction, and competency is validated.
2. **Counting College Credits toward High School Graduation**
   Beginning in the middle school years, students will be counseled as to opportunities for beginning postsecondary education prior to high school graduation. Students taking advantage of such opportunities will not be denied participation in school activities for which they are otherwise eligible. Whenever possible, students will be encouraged and afforded opportunities to take college courses simultaneously for high school graduation and college degree credit, under the following conditions:
   a. prior written approval of the high school Principal has been obtained;
   b. all requirements for high school graduation are completed at the end of the first year of college;
   c. the course(s) for which high school credit is to be issued corresponds to that needed for high school graduation (i.e., one year of college English for one credit of English);
   d. the college course(s) for which high school credit is to be granted is part of the student's program leading to college graduation, as evidenced by an official transcript.

3. **Course Credit Policy for Cooperative Education**
   The cooperative education programs are designed for students who wish to combine classroom instruction with supervised on-the-job training in occupations of their choice. Students in a cooperative education program have consecutive periods in their daily school schedule for on-the-job training activities and scheduled time to allow the student to be employed. Cooperative education students may receive credit for both classroom instruction and work experience.

4. **Credit for Courses Taught By Special Education Teachers**
   Special education students who are able to learn material designed for their age/grade level, but whose handicap necessitates specially designed instruction which cannot be provided in a regular class taught by a subject matter teacher, may earn unit credit toward graduation for subjects taught by highly qualified special education teachers. This policy applies only if the following criteria are met:
   a. the course is comparable in scope and sequence to its general education counterpart, providing a minimum of 140 clock hours of instruction;
   b. there is a course outline that includes the objectives of the course, the skills the student is expected to gain, and the text/materials to be used;
   c. there are stated procedures for evaluation of the progress of the student toward the course objectives which assure that the student has attained the expected skills and knowledge; and
   d. the special education teacher plans cooperatively with the general education teacher of the subject.

   The policy will be implemented using established school division procedures.

5. **Credit for New Horizons Regional Educational Centers: Governor’s School for Science and Technology**
   When a student is enrolled for one-half day in the regular high school program and the other half at the New Horizons Regional Educational Centers: Governor’s School for Science and Technology (GSST), the student receives credits for work successfully completed at the center.

6. **College Credit Option in Sequential Courses of Study**
   If a student has completed the highest level of a sequential course of study (e.g. world language or mathematics) that is available in the school division and chooses to pursue higher level coursework in that subject area at a college, upon successful completion of the college course, the student will receive credit which will be weighted at the same level as the highest level of the course that the student completed in the school division.

   This policy applies only if the student has received prior permission from the principal to participate in the college course and only after the subject area supervisor has verified that the course is indeed a higher-level course than the one completed at the high school.
(This policy does not prohibit a student from completing a college level course for no credit towards the high school diploma. Prior permission of the principal is required, however, for any student to take a college course during regular school hours). All costs (tuition, books, fees, transportation, etc.) associated with a student taking a college course are the responsibility of the student and will not be shared by the school division.

7. Transfer of Students

a. A secondary school will accept credits toward graduation received from other accredited secondary schools and schools accredited through the Virginia Council for Private Education (VCPE). The Board will review on an annual basis the accrediting procedures of the VCPE and direct any changes and modifications of such procedures in relation to the authority granted under these provisions. Students transferring into a Virginia public school shall be required to meet the requirements per regulations specified in 8 VAC 20-131-50 of the State Board of Education to receive a Standard or Advanced Studies Diploma except as modified by subsection E below. To receive a Special Diploma, Modified Standard Diploma, General Achievement Diploma, or Certificate of Program Completion, a student must meet the requirements prescribed by the Standards of Quality.

b. Standard or verified units of credit earned by a student in a Virginia public school will be transferable without limitation regardless of the accreditation status of the Virginia public school in which the credits were earned.

c. Records of transferred students will be sent directly to the school receiving the student upon request of the receiving school in accordance with the provisions of the "Management of the Student's Scholastic Records in Virginia."

d. The academic record of a student transferring into Virginia public schools from other than a Virginia public school, will be evaluated to determine the number of standard units of credit that have been earned, including credit from schools outside the United States, and the number of verified units of credit needed to graduate in accordance with subsection E below. Virginia public schools will accept standard and verified units of credit from other Virginia public schools and state-operated programs. Standard units of credit also will be accepted for courses satisfactorily completed in accredited colleges and universities when the student has been given credit by the previous school attended.

e. Students transferring above grade 10 from schools or other education programs that do not require or give credit for health and physical education will not be required to take these courses to meet graduation requirements.

However, no transfer student will earn fewer than the following number of verified units nor will such students be required to take SOL tests for verified units of credit in courses previously completed at another school or program of study unless necessary to meet the requirements listed in 1 and 2 below:

f. Students transferring into a Virginia public school from other than a Virginia public school after the tenth grade will be encouraged to earn as many credits as possible toward graduation that are prescribed according to regulations specified in 8 VAC 20-131-50 of the State Board of Education. Students may substitute courses required in other states in the same content areas if the student is unable to meet the specific content requirements of 8 VAC 20-131-50 without taking a heavier than normal course load in any semester, by taking summer school, or by taking courses after the time when he otherwise would have graduated.

1. For a Standard Diploma:

   • Students entering a Virginia high school for the first time during the ninth grade or through the first 20 days of instruction of the tenth grade will earn credit as prescribed in 8 VAC 20-131-50:
   
   • Students transferring in after the first 20 days of instruction of the tenth grade through the first 20 days of instruction of the eleventh grade will earn a minimum of four verified units of credit: one each in English, mathematics, history, and science. Students who complete a career and technical education program sequence may substitute a certificate, occupational competency
credential, or license for either a science or history and social science verified credit pursuant to 8 VAC 20-131-50; and,

- Students transferring in after the first 20 days of instruction of the eleventh grade through the first 20 days of instruction of the twelfth grade will earn a minimum of two verified units of credit: one in English and one of the student’s choosing.

2. For an Advanced Studies Diploma:
- Students transferring in at the ninth or at the beginning of the tenth grade will earn credit as prescribed in 8 VAC 20-131-50;
- Students transferring in during the tenth grade or at the beginning of the eleventh grade will earn a minimum of six verified units of credit: two in English, and one each in mathematics, social studies, and science, and one of the student’s choosing.
- Students transferring in during the eleventh grade or at the beginning of the twelfth grade will earn a minimum of four verified units of credit: one in English and three of the student’s choosing.
- Students transferring into a Virginia secondary school after the first semester of their eleventh grade year, must meet the requirements of 8 VAC 20-131-60.G.1.c or E.2.c. Students transferring after 20 instructional hours per course of their senior or twelfth grade year shall be given every opportunity to earn a Standard or Advanced Studies or Modified Diploma. If it is not possible for the student to meet the requirements for a diploma, arrangements should be made for the student’s previous school to award the diploma. If these arrangements cannot be made, a waiver of the verified unit of credit requirements may be available to the student. The Department of Education may grant such waivers upon request by the local school board in accordance with guidelines prescribed by the Board.
- The transcript of a student who graduates or transfers from a Virginia secondary school shall conform to the requirements of 8 VAC 20-160-10 Regulations Governing Secondary School Transcripts.

8. High School Courses Taken in Middle School
When students in middle school successfully complete courses offered for credit in grades 9-12, credit will be counted toward meeting the standard units required for graduation provided the courses meet SOL requirements or are equivalent in content and academic rigor to those courses offered in high school. Verified units of credit are awarded when students achieve a passing score on end-of-course SOL tests.

The course grades for high school credit courses taken in middle school become a part of the high school transcript and are included in the student’s grade point average.

Virginia Board of Education Regulation 8 VAC 20-131-90.C allows parents to request that final grades in credit-bearing courses taken in middle school be omitted from the student’s transcript and the student not earn high school credit for the course. The credit-bearing courses are Algebra I, Geometry, and World Language. The parents’ request must be in writing to the school principal prior to July 1 following completion of the eighth grade.
Credit Requirements for Grade Classification

The credit requirements for grade classification in the secondary schools are as follows:

<table>
<thead>
<tr>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 credits</td>
<td>11 credits</td>
<td>16 credits</td>
</tr>
</tbody>
</table>

The credits required for classification as a twelfth grade student must be accompanied by a schedule of classes that will enable the student to graduate by June of that school year. Any exception to this classification must be for exceptional circumstances approved personally by the principal.

Note: The accreditation status of a high school shall not be included on the student transcript provided to colleges, universities, or employers. The Board expressly states that any student who has met the graduation requirements established in 8 VAC 20-131-50 and has received a Virginia diploma holds a diploma that should be recognized as equal to any other Virginia diploma, regardless of the accreditation status of the student's high school. It is the express policy of the Board that no student shall be affected by the accreditation status of the student's school. The Board shall take appropriate action, from time to time, to ensure that no student is affected by the accreditation status of the student's school.

Revised: July, 1983; July 27, 1988; July 1992; August 1992; May 18, 1994; January 22, 1997; November 12, 1997; December 17, 1997; May 17, 2000; February 19, 2003; March 2003; January 19, 2004; April 21, 2004; May 16, 2006; December 12, 2006; December 2007; December 2010; February 12, 2012; February 19, 2013

GRADE POINT AVERAGE AND CLASS RANKING OF SECONDARY STUDENTS

Grade Point Average

Grade point averages will be provided for students in grades 9 through 12. Grade point average (GPA) and will be based upon the grades the student has earned in courses for which high school credit is awarded (including failing grades, repeated courses, summer school, night school and credit courses taken prior to grade nine). If a student repeats a course, only the higher of the two grades will be computed in the average.

Class Rank

1. Class ranking in Newport News Public Schools will be provided for students in grades 9 through 12.
2. Class ranking will be based upon the grades the student has earned in courses for which high school credit is awarded. This includes eighth grade accelerated courses in Algebra, Geometry, World Languages, and courses at the Governor’s School for Science and Technology (GSST) for which high school credit is awarded.
3. Students will be ranked at the end of each semester.
4. Rank in class will be computed to the thousandth of a percent with the thousandth place truncated and no rounding imposed.
5. For purpose of designation of student honors and for college admission information, the end of the first semester of the senior year will serve as the cutoff date for computation of class rank.
6. In computing class rank of students, the following scale will be used:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Points for Advanced Standing Courses (IB, AP, GSST)</th>
<th>Points for Honors Courses (H, Pre-IB)</th>
<th>Points for Standard Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5</td>
<td>4.5</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>4</td>
<td>3.5</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>3</td>
<td>2.5</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>2</td>
<td>1.5</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

7. Course weighting is assigned based upon the recommendation of the division curriculum committee and approval of the School Board. All courses identified for advanced standing contain a mandated external evaluation component. Students who do not participate in the external evaluation (i.e. AP exam) will receive honors weighted credit.

8. Class rank is to be determined by assigning the student with the highest GPA a rank of number one (1) in the class; the second highest, the rank of number two (2), etc. In cases where more than one student has the same numerical average, all students with that average will be given the same rank. The next highest average will assume the next rank position that will indicate the number of students having a higher rank. Rank will be computed to the hundredths place. Place value beyond the hundredths place will not be considered.

Example:

<table>
<thead>
<tr>
<th>Student No.</th>
<th>GPA</th>
<th>Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4.00</td>
<td>Rank 1</td>
</tr>
<tr>
<td>2</td>
<td>4.00</td>
<td>Rank 1</td>
</tr>
<tr>
<td>3</td>
<td>3.98</td>
<td>Rank 3</td>
</tr>
<tr>
<td>4</td>
<td>3.98</td>
<td>Rank 3</td>
</tr>
</tbody>
</table>

The student with the next highest grade average would have the rank of five (5) in the class, indicating that there are four students who rank higher.

9. Selection of Honors Graduates

Class ranking computed at the completion of the first semester of the senior year will be used to determine honor graduates. A student with a 3.0 average is to be considered an honor graduate. A student with a 3.4 average will be recognized as graduating with highest honors.

All students will be informed in writing of the procedures used for computing rank in class and for selecting honor graduates.

The student with the highest class rank is to be declared the valedictorian of the graduating class. In instances when more than one student holds the numerical rank of one, all students holding the rank are to be declared co-valedictorians. A student who is a full-time college student and simultaneously completing requirements for a high school diploma is not eligible to be declared valedictorian or salutatorian of the class.
10. National Honor Society

Membership standards for the National Honor Society are established in each high school. To be considered for membership, a student must have a minimum grade point average and meet other criteria as established by each school.

**SECONDARY GRADING SCALE**

A division-wide numerical scale is used for grading student performance in NNPS secondary schools. **NOTE: Only letter grades appear on report cards and transcripts.**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Numerical Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 – 100</td>
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<td>B</td>
<td>80 – 89</td>
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<td>C</td>
<td>70 – 79</td>
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<tr>
<td>D</td>
<td>60 – 69</td>
</tr>
<tr>
<td>F</td>
<td>Below 60</td>
</tr>
</tbody>
</table>
You've got options in Newport News Public Schools.

You have 3 ways to earn your two required Health/Physical Education graduation credits.

Traditional Method

- Student will enroll in 2 semesters of Health and 2 semesters of PE during the regular school day.
- Course work is completed in the classroom and gymnasium during the school year.

Considerations:
- Student will dress in appropriate PE attire throughout the semester
- No cost
- 90 days of classroom/gymnasium experience

After-School (8th period course)

- Student and parent will attend a mandatory orientation meeting for Wellness/Fitness Mgmt on the first Tuesday of the semester (contact your school counselor for specific date and time).
- Student will obtain a gym membership at one of NNPS partner gyms (YMCA, OneLife Fitness, Riverside Fitness or CrossFit OP).
- Students will log regular gym hours throughout the semester.
- Written assignments are completed through an online portal.

Considerations:
- Self-paced course requires effective time management skills and self-motivation
- Cost of gym membership (discounted rates may apply)
- Flexible scheduling
- Internet access required to complete online assignments

Summer School

- Summer sessions 1 and 2 offer Health I, Health II, Outdoor Ed I and Outdoor Ed II annually.
- Sessions are 7:30 a.m. - 2 p.m., Monday through Thursday for three weeks.
- Students will earn .5 credit for each session completed.
- Outdoor Education classes are held at Newport News Park and include activities such as hiking, biking, canoeing, fishing and camping.
- Daily attendance is required for successful completion of course.

Considerations:
- Outdoor summer weather conditions
- Summer school costs apply
- Full day program
- Each session is 12 days in length

Have questions? Contact your school counselor.
You have 3 ways to earn your required Personal Finance graduation credit.

**Traditional Method**
- Student will enroll in both semesters of course as one of 7 regular class periods.
- Coursework is completed in the classroom with a blended format of face-to-face and online instruction.
- No cost

**Summer School**
- Students will complete this required yearlong course during summer session 1 and summer session 2 (mid-June through beginning August). Student will only report to class on Mondays and will complete remaining course work online at home.
- Student will earn credit for both semesters of course while only required to pay cost of one semester.
- Coursework is completed independently (average of 3-4 hours per day).
- Instructor is available for students needing additional assistance.
- Summer school costs apply

**After-School (8th period course)**
- Student will complete this yearlong course in an after-school format.
- Students will complete all formal assessments in after-school sessions.
- Students will complete coursework at home.
- No additional cost
- Internet access required to complete online assignments

Have questions? Contact your school counselor.
You’ve Got Options in Newport News Public Schools

You have 26 Advanced Placement Courses to choose from.

**Art**
- AP Art History
- AP Music Theory
- AP Studio Art: 2-D Design
- AP Studio Art: 3-D Design
- AP Studio Art: Drawing

**Mathematics**
- AP Statistics
- AP Calculus AB
- AP Calculus BC

**Sciences**
- AP Environmental Science
- AP Biology
- AP Chemistry
- AP Physics C: Electricity and Magnetism
- AP Physics C: Mechanics
- AP Physics I
- AP Physics II

**World Languages**
- AP French Language
- AP German Language
- AP Latin Language
- AP Spanish Language

**History & Social Studies**
- AP Human Geography
- AP Psychology
- AP US History
- AP US Government
- AP World History

**English**
- AP English Language
- AP English Literature

Colleges want to see RIGOROUS courses on your transcript!

**AP Courses = RIGOR**

Newport News Public Schools

College, Career and Citizen-Ready!
YOU’VE GOT OPTIONS
in Newport News Public Schools

You have 6 High School Programs that will allow you to attend a school other than your zoned school.

Applications are available at any Newport News school, the administration building and on the NNPS website at www.nnschools.org/magnet.

Applications are due in January for the next school year. High school magnet and specialty program applications are open to rising 9th graders only. Upper classmen should contact the program director directly to apply.

Transportation is provided for all students participating in any of the NNPS magnet and specialty programs.

Aviation Academy @ Denbigh High

A specialized four-year science, technology, engineering and mathematics (STEM) program that prepares highly motivated high school students for rewarding careers by developing 21st Century Workplace skills through engineering technology in aviation maintenance and computers.

Areas of study:
- Aviation Maintenance
- Aviation Management
- Piloting
- Computer Hardware

Governor’s STEM Academy @ Heritage High

A program of study designed to expand options for students in science, technology, engineering and mathematics (STEM) with a focus on teamwork, effective communication and application of STEM principles.

Areas of study:
- Engineering and Robotics
- Computer Science and Game Design
- Networking and Cybersecurity

Have questions? Contact your school counselor.
University Magnet @ Heritage High
An academically rigorous four-year program to prepare students in becoming responsible lifelong learners with demonstrated abilities in creative problem-solving, critical thinking and decision-making

Focus of study:
• 2 Honors and/or 1 AP level course per year
• Participation on College and Career Prep, SAT/ACT Prep and Senior Seminar
• Community Service, Job Shadowing and Internship Experiences

Governor’s Health Science Academy @ Warwick High
A program combining academic coursework and clinical experiences in a challenging and collaborative school environment to prepare students for careers in the health sciences

Areas of study:
• Therapeutic Services
• Support Services
• Diagnostic Services
• Informatics and Support Services
• Biotechnology Research & Development

International Baccalaureate Program @ Warwick High
An internationally recognized and rigorous course of study designed to provide students with a well-rounded education and to facilitate geographical and cultural mobility

Focus of study includes pre-IB/IB level courses each year in the following disciplines:
• English Literature
• History of the Americas
• Mathematics
• Laboratory Science
• World Language
• Elective (one year)

Arts & Communications Magnet @ Woodside High
A four-year program offering students the opportunity for intensive study in the arts as part of a full and well-balanced academic program

Areas of study:
• Communications
• Creative Writing
• Dance
• Drama
• Music
• Visual Arts

Scan this QR code with your smart device to learn more.
YOU’VE GOT OPTIONS in Newport News Public Schools

You have 6 ways to Leave School in order to Extend Your Learning Opportunities

### Early College Program
- Qualifying seniors complete HS graduation requirements at the end of Semester 1 of senior year.
- During Semester 2, student attends Thomas Nelson Community College.
- Textbooks, transportation and partial tuition are provided by NNPS.
- Students may continue to participate in all extra-curricular activities while attending TNCC.
- Students can earn up to 19 transferable college credits.

### Early Career Program
- Qualifying seniors complete HS graduation requirements at the end of Semester 1 of senior year.
- During Semester 2, student attends Thomas Nelson Community College.
- Textbooks, transportation and partial tuition are provided by NNPS.
- Students may continue to participate in all extra-curricular activities while attending TNCC.
- Students earn vocational certifications to prepare them for employment.

### Career & Technical Education Co-Op Course
- Program includes a combination of classroom instruction and on-the-job training.
- Students are required to work part time and receive course credit for their job performance.
- Work release periods allow for flexible scheduling. Credit can also be earned through an after school job experience (8th period).
- Students can earn one elective credit for job experiences.

### Service Learning Internship
- Opportunity for students to connect their interests, skills and abilities with real life experiences for future careers.
- Student must accrue at least 70 hours (per semester) to earn course credit.
- Course requires a contract that provides guidelines and requirements for the project.
- Abbreviated school schedule allows opportunity for internship to be completed during the school day.
- School counselor will assist with coordination of service learning experience.
**Internship**

- Opportunity for students to connect their interests, skills and abilities with real life experiences for future careers while earning a honors weighted credit.
- Student must accrue at least 125 hours (per semester) in a supervised, school approved job to earn weighted course credit.
- Abbreviated school schedule allows opportunity for internship to be completed during the school day.

**US Government via Distance Learning**

- Course restricted to seniors only.
- Student will complete assignments outside of the classroom utilizing online instruction through Desire 2 Learn (D2L) program.
- Classroom teacher is available for assistance during regularly scheduled class period.
- Any student earning a “D” or “F” in the class will return to the traditional classroom setting until the grade improves.

Students can take additional vocational courses at **New Horizons Regional Education Center** as well as participate in an innovative program of science and mathematics at **The Governor’s School for Science and Technology**. See your school counselor for more information.
You have 5 ways to improve your Grade Point Average

As a NNPS student, your goal is to maintain a GPA of 3.0 or above throughout high school.

**Weighted Courses**
- Enroll in and successfully complete Honors level classes each year. Students earn additional (.5) credit for every honors class passed.
- Enroll in and successfully complete AP level classes each year. Students earn additional (1.0) credit for every AP class passed.

**Considerations:**
- No additional class time.
- Weighted courses demonstrate rigor of coursework which is the #1 factor used in determining college admissions decisions.

**Grad Point**
- Retake a course utilizing the NNPS credit recovery online portal.

**Considerations:**
- Self-paced course requires effective time management skills and motivation.
- Limited space available in each high school.

**Grade Recovery**
- Sign up for after school grade recovery program that provides the opportunity to improve low marking period grades by one full letter grade.

**Considerations:**
- Each high school determines which courses will be offered in this format.
- After-school attendance is mandatory for every session scheduled.

**Summer School**
- Retake core course for grade improvement. English, Social Studies and Science courses are available for repeat credit only. (Student must have been enrolled in the class previously)
- Take a course during the summer to make room for more rigorous class during the school year. Health, PE, Math and Personal Finance are available in the summer for original credit. (Student does not have to have been enrolled in the class previously.)

**Considerations:**
- Costs apply
- Can earn 1/2 credit in 12 days (1 session)
- Can earn 1 credit in 24 days (2 sessions)

**Summer Institute of the Arts**
- Enroll in an intensive six week arts program and earn one honors weighted credit.

**Considerations:**
- Costs apply
- Full day program including both summer sessions

Have questions? Contact your school counselor.

NNPS students are allowed to retake classes for grade improvement for any course in which an undesirable final grade was earned.
ACADEMIC OPTIONS GUIDE FOR STUDENTS

HIGH SCHOOL COURSE SEQUENCES
The following flow charts show the sequence of courses for some academic areas.

Additional courses are available at New Horizons Regional Education Center for students who complete the course of study at their home schools in the following subjects: Science, Mathematics.

See your school counselor if you have questions.

English

9th English
9th H English

10th English
10th H English

11th English
11th H English
11th AP English

12th English
12th H English
12th AP English

Science

Earth Science
H Earth Science
AP Environmental Science
Biology
H Biology

Chemistry
H Chemistry
AP Chemistry
Biology II - Marine Biology, Zoology, Ecology, Field Biology, Forensics, Genetics, Molecular and Cellular Biology, and Research and Application Methods for Cellular Processes
H Biology II - Anatomy and Physiology
Earth Science II - Astronomy, Oceanography

Physics I
H Physics

AP Physics I
AP Physics II

Social Studies

World Geography
H World Geography
AP Human Geography

World History I
H World History
AP World History

U.S. History
H U.S. History
AP U.S. History

Government
H Government
AP U.S. Government
Mathematics

1Algebra Functions and Data Analysis cannot be taken AFTER Algebra II.
2Trigonometry/Elementary Functions may also be a prerequisite for AP Statistics.

Health and Physical Education
Select one of three Physical Education options:

Option 1: In School

SELECT ONE:
- Lifetime Activities I
- Team Activities I
- Dance Activities I

SELECT ONE:
- Lifetime Activities II
- Team Activities II
- Dance Activities II

ELECTIVES:
- Dance & Fitness
- Advanced Team Sports
- Personal Fitness

Option 2: Summer School

Outdoor Education I

Outdoor Education II

Option 3: Extended School

Fitness & Wellness Management I

Fitness & Wellness Management II

Students may combine options, but with Option 1 (in any combination) it must include Introduction to Fitness.

Health

Health I

Health II/Driver Education

ELECTIVE:
- Sports Medicine
**Engineering Strand (Prerequisites - 2 of the following sciences: Biology, Chemistry and/or Physics, with a math minimum of Pre-Calculus.)**

<table>
<thead>
<tr>
<th>Course</th>
<th>11th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus-based Engineering Physics I &amp; II:</td>
<td>2 HS/8 TNCC credits</td>
<td>2 HS/8 TNCC credits</td>
</tr>
<tr>
<td>Research Methodology &amp; Ethics</td>
<td>1 HS</td>
<td>2 HS credits for Env Sci / HR / M</td>
</tr>
<tr>
<td>Calculus</td>
<td>1 HS/8 TNCC credits</td>
<td>4 TNCC credits for Env Sci</td>
</tr>
<tr>
<td>Multivariable (MV) - Linear Algebra (LA) / Statistics</td>
<td>1 HS/7 TNCC credits for MV-LA</td>
<td>2 TNCC credits for HR/M</td>
</tr>
<tr>
<td>Total</td>
<td>5 HS/15-18 college credits</td>
<td>9 HS/31-34 college credits</td>
</tr>
</tbody>
</table>

**Biological Science Strand (Prerequisites - Biology and Chemistry, with a math minimum of Algebra II/Trig).**

<table>
<thead>
<tr>
<th>Course</th>
<th>11th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Chemical Analysis</td>
<td>2 HS/8 TNCC credits</td>
<td>2 HS/8 TNCC credits</td>
</tr>
<tr>
<td>Research Methodology &amp; Ethics</td>
<td>1 HS</td>
<td>2 HS credits for Env Sci / HR / M</td>
</tr>
<tr>
<td>Modern Pre-Calculus / Calculus</td>
<td>1 HS/6 TNCC credits for Pre-Calculus</td>
<td>4 TNCC credits for Env Sci</td>
</tr>
<tr>
<td>Calculus / MV-LA /Statistics</td>
<td>1 HS/7 TNCC credits for Calculus</td>
<td>2 TNCC credits for HR/M</td>
</tr>
<tr>
<td>Total</td>
<td>5 HS/17-22 college credits</td>
<td>9 HS/31-38 college credits</td>
</tr>
</tbody>
</table>

**Computational Science & Engineering (Prerequisites - 2 of the following sciences: Biology, Chemistry and/or Physics, with a math minimum of Algebra II/Trig ).**

<table>
<thead>
<tr>
<th>Course</th>
<th>11th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computational Physics</td>
<td>2 HS credits/8TNCC credits</td>
<td>2 HS/8 TNCC credits* pending approval</td>
</tr>
<tr>
<td>Research Methodology &amp; Ethics</td>
<td>1 HS</td>
<td>2 HS credits for Env Sci / HR / M</td>
</tr>
<tr>
<td>Modern Pre-Calculus / Calculus</td>
<td>1 HS/6 TNCC credits for Pre-Calculus</td>
<td>4 TNCC credits for Env Sci</td>
</tr>
<tr>
<td>Calculus / MV-LA /Statistics</td>
<td>1 HS/7 TNCC credits for Calculus</td>
<td>2 TNCC credits for HR/M</td>
</tr>
<tr>
<td>Total</td>
<td>5 HS/28-33 college credits</td>
<td>9 HS/41-49 college credits</td>
</tr>
</tbody>
</table>

*Biological Science - It is recommended that students take high school Physics at their home school division.*
ART COURSES

ART GRADE 6
Course Number: RN6ART
Prerequisites: None

Grade Level: 6
Art Grade 6 is an exploration of the elements of art and the principles of design as a framework, students investigate a variety of experiences and concepts. Students explore various two-dimensional and three-dimensional art media using a variety of expressive and technical approaches.

ART GRADE 7
Course Number: AR7300
Prerequisites: None

Grade Level: 7
Art Grade 7 emphasizes exploration of the creative process through analysis of the elements of art and the principles of design. Students develop technical skills that empower them to communicate ideas visually, with the focus on realistic representations of their environment.

ART GRADE 8
Course Number: AR8300
Prerequisites: None

Grade Level: 8
Art Grade 8 emphasizes application of more complex technical skills as students manipulate the elements of art and the principles of design, art media and ideas. Students acquire art skills that enable them to make conscious choices of media and techniques for expressive purposes.

ART I: FOUNDATIONS OF ART
Course Number: AR0100
Prerequisites: None
Grade Level: 9-12
Credit: ½ credit per semester
Art I: Foundations of Art emphasizes the development of abilities to recognize visual arts content and concepts. Students will develop skills to create, discuss and understand original works of art. Students will maintain a portfolio documenting their accomplishments.

ART 2D: DRAW/PAINT
Course Number: AR0200
Prerequisites: Art I: Foundations or successful completion of Visual Art SIA with recommendation of art teacher.
Grade Level: 9-12
Credit: ½ credit per semester
Art 2D: Draw/Paint is an intermediate level course that emphasizes the importance of content, concepts and skills involved in the creation of original works of art. The student will demonstrate his/her understanding of mark making and design principles as applied to two-dimensional surfaces. Two-dimensional media may include drawing, painting, printmaking, mixed media and/or digital processes. In addition, art history, critical evaluation and aesthetics issues will be addressed. Students will continue to maintain a portfolio and select representative work to take to the next level of study.
ART 3D: SCULPTURE/CRAFTS
Course Number: AR0300
Prerequisites: Art I: Foundations of Art or successful completion of Visual Art SIA with recommendation of art teacher.
Grade Level: 9-12
Credit: ½ credit per semester
Art 3D: Sculpture/Crafts is an intermediate level course intended to address engagement with physical space and materials. In this course, the student should demonstrate his/her understanding of design principles as they relate to depth and space. The course emphasizes the importance of content, concepts, and skills involved in the creation of original works of art. Included are components of art history, critical evaluation and aesthetics. Selected works of art and other products will be added to the portfolio and carried forward to the next level of study.

CAREER DEVELOPMENT IN THE VISUAL ARTS
Course Number: AR0089
Prerequisites: Art I: Foundations of Art
Grade Level: 9-12
Credit: ½ credit
This course will prepare students for a career or college setting by exploring topics such as selecting a career focus, technology for the 21st century artist, new art forms and emerging artists. Copyright laws for visual artist, preparing work for display and applying for commissions will also be studied. Students will develop and maintain a digital portfolio. Internships, guest speakers and behind the scene experiences will be sought to provide students insight into what it takes to reach their art career goals. This is a one semester course.

HISTORY OF ART
Course Number: AR0079
Prerequisites: Art I: Foundations of Art
Grade Level: 10-12
Credit: ½ credit
This course will acquaint the student with the varied avenues humanity has used to express itself through the visual arts. The course provides a balanced approach by combining art history, art criticism, and personal art production. History of Art provides a foundation to students to be future artists, historians, critics and patrons of the arts. This is a one semester course.

INTRODUCTORY ART
Course Number: AR0019
Prerequisites: None
Grade Level: 9-12
Credit: ½ credit
Introductory Art is a one-semester exploratory course designed to appeal to pupils who have little background knowledge in visual art. In the course students experience a variety of art media to further their appreciation of visual arts. It is not to be considered an alternative to Art I, nor can it count toward the sequential art program. This is a one semester course.

COMPUTER ART I
Course Number: AR1100
Prerequisites: Art I: Foundations of Art or recommendation of art teacher
Grade Level: 9-12
Credit: ½ credit per semester
Computer Art I is a two-semester course focusing on the development of skills necessary to utilize standard computer tools and software in the creation of visual art, graphic designs and imaging. The course will focus on basic art design concepts, personal expression and creative problem solving. In addition, it will provide students with experiences exploring careers in the field of computer graphics.
COMPUTER ART II
Course Number: AR1200
Prerequisites: Computer Art I or recommendation of art teacher
Grade Level: 10-12
Credit: ½ credit per semester

Computer Art II is a two-semester course that will continue to develop skills and provide experiences needed to enter career fields in visual arts, computer graphics and animation. Greater emphasis will be placed on creative problem solving and career simulation assignments. Students will maintain a digital portfolio.

VIDEO ART
Course Number: AR0059
Prerequisites: Successful completion of Computer Art I or teacher recommendation
Grade Level: 10-12
Credit: ½ credit
OFFERED ONLY AT WOODSIDE HS
This is an introductory course in basic video editing and production relating to the creation of video as art. Students will explore the possibilities of video as an art form that can be used for communication on websites, as well as for installations in art galleries. This is a one semester course.

INTERACTIVE DESIGN INTRO
Course Number: AR0099
Prerequisites: Successful completion of Computer Art I or teacher recommendation
Grade Level: 10-12
Credit: ½ credit
OFFERED ONLY AT WOODSIDE HS
This course involves the production of websites as a form of communication between the artist and his/her audience. Students will learn basic photo editing, text manipulation, composition, and the organizational skills necessary to build a professional quality website. In addition, students will prepare their own art images creating digital portfolios, accompanying artist statements, resume and biography to be used in production of web pages promoting their personal art. This is a one semester course.

AP ART HISTORY
Course Number: AR3300
Prerequisites: None
Grade Level: 11, 12
Credit: ½ credit per semester (+1.0 weighted credit)
AP Art History is a comprehensive study of the history of art. The course includes study of architecture, painting, sculpture, and other art forms, within cultural and historical contexts. Students will examine the major forms of artistic expression in the past and present, including our own and that of other cultures. Students will learn to express opinions, conduct research, and to compare and contrast styles verbally and in writing. Students prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college.

ART PORTFOLIO DEVELOPMENT
Course Number: AR3100
Prerequisites: 2 credits in art; teacher recommendation and portfolio demonstrating serious interest and proficiency in art production
Grade Level: 10-12
Credit: ½ credit per semester (+0.5 weighted credit)
This course is designed for students who plan to continue to an Advanced Placement Studio Art course and/or make art or an art related subject a college or career choice. Students will develop technical and conceptual art making skills. 2D and 3D techniques, art history, art appreciation, and related areas of art are explored and developed. Students will work with the teacher to develop an individualized plan of instruction based on areas of artistic interest. Students are required to develop a portfolio of original ideas demonstrating a personal focus for art production.
AP STUDIO ART: 2D DESIGN  
Course Number: AR3210  
Prerequisites: 2 credits in Art; teacher recommendation and portfolio demonstrating advanced art skills  
Grade Level: 10-12  
Credit: ½ credit per semester (+1.0 weighted credit)  
The portfolio for AP 2D Design is intended to address two-dimensional (2D) design issues. The unifying idea for the portfolio is that the student focuses on making decisions about how to use the elements of art and principles of design to create works of art that convey meaning. Any two-dimensional medium may be used for this portfolio. Each student develops and submits a portfolio that serves as a direct demonstration of achievement. The course guidelines are based on AP portfolio requirements. Coursework includes hands-on project development as well as research and writing assignments. The course is designed for the art student who wishes to pursue college-level study while still in high school, and for the student who is seriously interested in the practical experience of art. Students are required to keep a portfolio and research workbook (journal/sketchbook).

AP STUDIO ART: 3D DESIGN  
Course Number: AR3220  
Prerequisites: 2 credits in Art, teacher recommendation and portfolio demonstrating advanced art skills  
Grade Level: 10-12  
Credit: ½ credit per semester (+1.0 weighted credit)  
The portfolio for AP 3D Design is intended to address three-dimensional (3D) design issues. Works that are submitted for this portfolio explore depth and space by addressing issues related to mass, volume, and form. The focus is on using the elements of art and principals of design to create 3D works of art that convey meaning. Any three-dimensional medium may be used for this portfolio. Each student develops and submits a portfolio that serves as a direct demonstration of achievement. The course guidelines are based on AP portfolio requirements. Coursework includes hands-on project development as well as research and writing assignments. The course is designed for the art student who wishes to pursue college-level study while still in high school, and for the student who is seriously interested in the practical experience of art. Students are required to keep a portfolio and research workbook (journal/sketchbook).

AP STUDIO ART: DRAWING  
Course Number: AR3230  
Prerequisites: 2 credits in Art, teacher recommendation and portfolio demonstrating advanced art skills  
Grade Level: 10-12  
Credit: ½ credit per semester (+1.0 weighted credit)  
In AP Drawing, portfolio mastery of drawing may be demonstrated through a wide range of approaches and media. The unifying focus for this portfolio is the exploration of art that involves direct mark making on a surface. Light and shade, line quality, rendering of form, composition, surface manipulation and the illusion of depth are among the drawing issues that can be addressed. Each student develops and submits a portfolio that serves as a direct demonstration of achievement. The course guidelines are based on AP portfolio requirements. Coursework includes hands-on project development as well as research and writing assignments. The course is designed for the art student who wishes to pursue college-level study while still in high school, and for the student who is seriously interested in the practical experience of art. Students are required to keep a portfolio and research workbook (journal/sketchbook).

INTRODUCTORY PHOTOGRAPHY  
Course Number: AR0029  
Prerequisites: Successful completion of Art I or art teacher recommendation  
Grade Level: 9-12  
Credit: ½ credit  
This course is a basic introduction to photography designed to be completed in one semester. Students will learn how to see the world through the camera and utilize photography as an image-making medium. The course introduces the functions of the single lens reflex camera and basic darkroom procedures for developing and printing black and white film. Students will investigate new technologies utilizing the digital image and the computer. This is a one semester course.
PHOTOGRAPHY I
Course Number: AR3400
Prerequisites: Successful completion of Art I Foundations, Introductory Photography or teacher recommendation
Grade Level: 10-12
Credit: ½ credit per semester
Photography I is an introductory course in basic darkroom and digital photography techniques. Students will learn the operations and functions of digital and film cameras. Basic darkroom processes and digital editing software will be introduced. Emphasis will be placed on developing creative expression by integrating technical knowledge with aesthetic approaches. In addition, the course will explore the history of photography and encourage students to develops career interest areas.

PHOTOGRAPHY II
Course Number: AR3420
Prerequisites: Successful completion of Photography I
Grade Level: 10-12
Credit: ½ credit per semester
Photography II is designed for students who have received credit for one full year of photography. Students investigate new areas in photographic media and often have a choice of camera formats and technologies for in-depth exploration. Emphasis is on thematic exploration for personal expression and on building a photographic portfolio.

DIGITAL PHOTOGRAPHY
Course Number: AR0039
Prerequisites: Art I Foundations, Introductory Photography, SIA or teacher recommendation
Grade Level: 9-12
Credit: ½ credit
Students will explore the creative possibilities of their digital cameras from a fine art approach. Emphasis will be placed on composition, lighting and subject choices. Traditional photo editing with basic computer software will be introduced. Students will be required to save all work in a digital portfolio. Students may repeat this course a second semester to advance skills. This is a one semester course.

INTRODUCTORY CERAMICS
Course Number: AR0049
Prerequisites: Successful completion of Art I Foundations or teacher recommendation
Grade Level: 9-12
Credit: ½ credit
Ceramics is a semester course focusing on the introduction of hand-built pottery methods. Relief and sculptural techniques will be explored. This is a one semester course.

CERAMICS
Course Number: AR0400
Prerequisites: Successful completion of Art I Foundations or teacher recommendation
Grade Level: 9-12
Credit: ½ credit per semester
Ceramics is a full year course beginning with traditional hand built pottery methods and exploring the discipline of wheel throwing in ceramics production. Basic glaze and glaze chemistry will be covered. These techniques will be explored in the context of ceramic art historically and in contemporary art forms. This course also explores the use of ceramic materials in the larger context of sculptural possibilities. An emphasis on research and introspection is expected through the development of a personal portfolio.
CAREER & TECHNICAL EDUCATION COURSES

Aviation
The following courses are offered only at the Aviation Academy:

AEROSPACE TECHNOLOGY I
Course Number: AV1210
Prerequisites: None
Grade: 9
Credit: 1 credit yearlong course
OFFERED ONLY AT DENBIGH HIGH SCHOOL AVIATION ACADEMY
This offers an introduction to flight, space, and supporting technologies through a hands-on approach. Students explore the aviation and space industries through the history of aviation, working with aerodynamics and aircraft components, addressing maintenance and safety issues, assessing flight conditions, examining airport and flight operation, and analyzing the concepts of rocketry and space.

AEROSPACE TECHNOLOGY II
Course Number: AV1220
Prerequisites: Aerospace Technology I
Grade Level: 10
Credit: 1 credit yearlong course
OFFERED ONLY AT DENBIGH HIGH SCHOOL AVIATION ACADEMY
Aerospace Technology II provides an advanced exploration of flight, space travel, and supporting technologies through a problem-solving method and practical application. Students explore concepts in aircraft operations; aircraft design, flight safety and maintenance; airport infrastructure; rocket technology; space systems; and living and working in the aerospace Environment.

CRIMINAL JUSTICE I
Course Number: AV1410
Prerequisites: None
Grade Level: 9
Credit: 1 credit yearlong course
OFFERED ONLY AT DENBIGH HIGH SCHOOL AVIATION ACADEMY
Students are introduced to the legal foundations and processes, and the principles, techniques, and practices for exploring careers within the criminal justice system as it relates to aviation safety and security.

HONORS CRIMINAL JUSTICE II
Course Number: AV1450
Prerequisites: Criminal Justice I
Grade Level: 10
Credit: 2 credit yearlong course (+0.5 weighted credit)
OFFERED ONLY AT DENBIGH HIGH SCHOOL AVIATION ACADEMY
Students learn the legal foundations and processes, the principles, techniques, and practices for exploring careers within the criminal justice system as it relates to aviation safety and security, and the history of terrorism in the United States. Students combine classroom instruction and supervised, practical experience throughout the school year.
INTRODUCTION TO ENGINEERING DESIGN - AEROSPACE
Course Number: AV1110
Prerequisites: None
Grade Level: 9
Credit: credit yearlong course
OFFERED ONLY AT DENVIGH HIGH SCHOOL AVIATION ACADEMY
In this foundation course students use 3-D computer modeling software as they learn the engineering design process and solve design problems for which they develop, analyze, and create product models. This is a Project Lead the Way course.

HONORS DIGITAL ELECTRONICS IN AVIATION
Course Number: AV1160
Prerequisites: Introduction to engineering Design - Aerospace
Grade Level: 10
Credit: 1 credit yearlong course (+0.5 weighted credit)
OFFERED ONLY AT DENVIGH HIGH SCHOOL AVIATION ACADEMY
Students use computer simulations to learn about the logic of electronics as they design, test, and actually construct circuits and devices. They apply control system programming and explore sequential logic and digital circuitry fundamentals. Topics in computer circuitry are also presented. This is a Project Lead the Way course.

AVIATION MAINTENANCE TECHNOLOGY I
Course Number: AV1230
Prerequisites: Aerospace Technology II
Grade Level: 11
Credit: 1 credit yearlong course
OFFERED ONLY AT DENVIGH HIGH SCHOOL AVIATION ACADEMY
Students will work with airframe and control surfaces, power plants, and basic aviation electricity and perform ground operations and servicing procedures, as specified by FAA requirements. Students will also practice lab and tool safety, study career pathways, apply academic principles to aviation maintenance tasks, and research and use maintenance publications, forms, and records.
Max enrollment: 16 students.

HONORS AVIATION MAINTENANCE TECHNOLOGY II
Course Number: AV1250
Prerequisites: Aviation Maintenance Technology I
Grade Level: 12
Credit: 2 credit yearlong course (+0.5 weighted credit)
OFFERED ONLY AT DENVIGH HIGH SCHOOL AVIATION ACADEMY
Students will explore design features of aircraft through drawings and blueprints, aircraft materials and processes, weight and balance procedures, and fluid lines and fittings. Additionally, students will be taught care and maintenance techniques, such as how to identify and correct corrosion, practice lab and tool safety, and apply academic principles while working with aircraft.
Max enrollment: 16 students.
AIRCRAFT PILOT TRAINING I  
Course Number: AV1310  
Prerequisites: None  
Grade Level: 9  
Credit: 1 credit yearlong course  
OFFERED ONLY AT DENBIGH HIGH SCHOOL AVIATION ACADEMY  
Students will obtain knowledge necessary to complete the FAA Private Pilot Airplane Written Examination. There are flight simulation lessons that support the ground lessons. This course covers Aerodynamic Principles, Powerplant and Related Systems, Flight Instruments Aircraft Performance, Weather Theory, Weather Reports and Forecasts, Federal Aviation Regulations, National Transportation Safety Board, VFR Charts, Airspace, Airport Markings and Operations, Radio Communication, Pilot age and Dead-reckoning Navigation, Radio Navigation, Flight Planning, and flight Physiology, as well as hands-on activities. Max enrollment: 20 students.

HONORS AIRCRAFT PILOT TRAINING II  
Course Number: AV1350  
Prerequisites: Aircraft Pilot Training I  
Grade Level: 10  
Credit: 2 credit yearlong course (+0.5 weighted credit)  
OFFERED ONLY AT DENBIGH HIGH SCHOOL AVIATION ACADEMY  
Students continue their pursuit in learning more about the pilot career and build on prior information learned in the Aviation Pilot Training I course. Students participate in flight training, ground school, and simulator instruction to support the flight syllabus while studying meteorology, aerodynamics, navigation, physiology, airfield and flight environments, aircraft maneuvers, and aircraft weight and balance. Max enrollment: 20 students.

AEROSPACE ENGINEERING  
Course Number: AV1130  
Prerequisites: Honors Digital Electronics in Aviation  
Grade Level: 11  
Credit: 1 credit yearlong course  
OFFERED ONLY AT DENBIGH HIGH SCHOOL AVIATION ACADEMY  
In this specialized course, students are taught about aerodynamics, astronautics, space-life sciences, and systems engineering through hands-on engineering problems and projects. This is a Project Lead the Way course.

PUBLIC SAFETY IN AVIATION I  
Course Number: AV1430  
Prerequisites: Honors Criminal Justice II  
Grade Level: 11  
Credit: 1 credit yearlong course  
OFFERED ONLY AT DENBIGH HIGH SCHOOL AVIATION ACADEMY  
Students perform procedures related to law enforcement and aviation safety occupations, including learning the history of the criminal justice system; policing skills; the rule of law; crime scene investigation; the role of the course; communications systems; and first aid and CPR techniques.

HONORS PUBLIC SAFETY IN AVIATION II  
Course Number: AV1460  
Prerequisites: Public Safety in Aviation I  
Grade Level: 12  
Credit: 2 credit yearlong course (+0.5 weighted credit)  
OFFERED ONLY AT DENBIGH HIGH SCHOOL AVIATION ACADEMY  
Students perform procedures related to law enforcement and aviation safety occupations, including learning policing; the rule of law; the role of the courts, including juvenile justice; the history and fundamentals of the fire service; building construction; ventilation; salvage, overhaul, and HazMat standards.
HONORS AIR TRAFFIC CONTROLLER  
Course Number: AV1360  
Prerequisites: Aviation Operations Management  
Grade Level: 12  
Credit: 2 credit yearlong course (+0.5 weighted credit)  
OFFERED ONLY AT DENBIGH HIGH SCHOOL AVIATION ACADEMY

This course will help students understand the skills necessary and the importance of ensuring a smooth flow of air traffic arriving and departing from an airport. Students will experience the role of Air Traffic Controllers in the operation and management of airports, as well as training and career opportunities in this field. Instruction will take place on Function and History of Air Traffic Control, Duties and Responsibilities, Military Air Traffic Control, Meteorology, Emergency situations and other related topics. Knowledge will be obtained related to passing the FAA Air Traffic Control exam. **Max enrollment: 20 students.**

AVIATION OPERATIONS MANAGEMENT  
Course Number: AV1330  
Prerequisites: Honors Aircraft Pilot Training II  
Grade Level: 11  
Credit: 1 credit yearlong course  
OFFERED ONLY AT DENBIGH HIGH SCHOOL AVIATION ACADEMY

Students explore the aviation industry, acquiring skills in airport operations, air traffic control, and addressing airport-specific concerns. Special emphasis placed on real-world scenarios and problem-solving, students are taught to inspect airfields, handle airport emergencies, design an airport, and control the airport environment in the same way these issues are being addressed in the industry today.

HONORS ENGINEERING DESIGN & DEVELOPMENT CAPSTONE  
Course Number: AV1150  
Prerequisites: Aerospace Engineering  
Grade Level: 12  
Credit: 1 credit yearlong course (+0.5 weighted credit)  
OFFERED ONLY AT DENBIGH HIGH SCHOOL AVIATION ACADEMY

In this capstone course in Project Lead the Way, teams of students, guided by community mentors, work together to research, design, and construct solutions to engineering problems. Students synthesize knowledge, skills, and abilities through an authentic engineering experience. Students are expected to develop and formally present an independent-study project and a team-oriented project that are critiqued by an evaluation committee. **This is a Project Lead the Way course.**

Business & Information Technology

KEYBOARDING APPLICATIONS  
Course Number: RN6KEY  
Grade Level: 6  
This course is designed for middle school students to develop touch skills for entering alphabetic, numeric and symbol information on a keyboard. Students compose and produce personal, educational and professional documents.

COMPUTER SOLUTIONS  
Course Number: BU7006  
Grade Level: 7  
This exploratory course introduces students to the basic skills of computer technology required by the Standards of Learning. Word processing, spreadsheets, databases and presentation software will be included in the course content.
DIGITAL INPUT TECHNOLOGIES
Course Number: BU8006
Prerequisites: None
Grade Level: 8
This course introduces the use of new and emerging data input tools that are becoming the standard in today's work and educational settings. Students will develop proficiency in the use of speech recognition software, digital cameras, digital video cameras and input tools for entering and manipulating text and data.

DIGITAL APPLICATIONS
Course Number: BU0209
Grade Level: 9, 10
Credit: 1 credit yearlong course
Students demonstrate an understanding of computer concepts through application of knowledge. Students learn to use software packages and local and worldwide network communications systems. Students develop or review correct keyboarding techniques and gain a basic knowledge of word processing, spreadsheet, database, graphics and telecommunications applications.

BUSINESS LAW
Course Number: BU0309
Prerequisites: None
Grade Level: 10-12
Credit: ½ credit
Students examine the foundations of the American legal system. Students explore economic and social concepts as they relate to legal principles and to business and personal laws. This is a one semester course.

INFORMATION TECHNOLOGY FUNDAMENTALS
Course Number: BU1000
Prerequisites: None
Grade Level: 9
Credit: 1 credit yearlong course
Information Technology (IT) Fundamentals introduces the essential skills needed for students to pursue specialized programs leading to technical and professional careers and certifications in the IT industry. The course provides an introductory framework as students prepare for higher-level certification programs and courses such as A+, CISCO, etc. Students have an opportunity to investigate career opportunities in four major IT areas: Information Services and Support, Network Systems, Programming and Software Development, and Interactive Media.

COMPUTER NETWORK SOFTWARE OPERATIONS
Course Number: BU0530
Prerequisites: Information Technology Fundamentals
Grade Level: 10
Credit: 1 credit yearlong course
OFFERED ONLY AT HERITAGE HIGH SCHOOL GOVERNOR'S STEM ACADEMY
Course is designed to teach many aspects of computer support and network administration. Students learn networking concepts, usage of components, peer-to-peer network systems, client service networks, installation of network and workstation operating systems, set up and manage user accounts, create and implement security plans, communication protocols, troubleshooting techniques for systems and client server networks, website management, and other advanced networking readiness. The course prepares students for postsecondary education and training and a successful career in information technology.
ADVANCED COMPUTER NETWORK SOFTWARE OPERATIONS (HONORS)
Course Number: BU0550
Prerequisites: Computer Network Software Operations
Grade Level: 11
Credit: 1 credit yearlong course (+0.5 weighted credit)
OFFERED ONLY AT HERITAGE HIGH SCHOOL GOVERNOR’S STEM ACADEMY
Course continues to teach aspects of network administration, focusing on the management and support of network users and systems. The topics learned include understanding the responsibilities of computer professionals, training end users, evaluating new technology, developing system policies, troubleshooting workstations, managing network services and protocols, and effectively using email and business communications. Students learn communication protocols, troubleshooting techniques for systems and client-server network, website management, and other advanced networking topics. Techniques that are used to install operating systems, set up and manage accounts, load software, and create and implement security plans are taught.

PROGRAMMING
Course Number: BU5100
Prerequisites: Successful completion of Algebra 1
Grade Level: 9
Credit: 1 credit yearlong course
OFFERED ONLY AT HERITAGE HIGH SCHOOL GOVERNOR’S STEM ACADEMY
Students in the Programming course explore programming concepts, use algorithmic procedures, implement programming procedures with one or more standard languages, and master programming fundamentals. Coding is used throughout the course. Graphical user interfaces may be used as students design and develop interactive multimedia applications, including game programs. In addition, students employ HTML or JavaScript to create Web pages. Students develop their employability skills through a variety of activities.

AP COMPUTER SCIENCE PRINCIPLES
Course Number: BU5300
Prerequisites: Programming
Grade Level: 10
Credit: 1 credit yearlong course (+1.0 weighted credit)
Students design, implement and interpret computer-based solutions to problems in several application areas, becoming knowledgeable about programming concepts, algorithm designs, and documentation of the computer solution. The course material emphasizes those concepts outlined by the College Board and prepares students to take the Advanced Placement Computer Science Principles test.

PRINCIPLES OF BUSINESS & MARKETING
Course Number: BU1109
Prerequisites: None
Grade Level: 9-12
Credit: ½ credit per semester
Students explore the roles of business and marketing in the free enterprise system and the global economy. Students study how basic financial concepts of banking, insurance, credit, taxation, and investments provide a strong background as they prepare to make decisions as consumers, wage earners and citizens. This is a one semester course.

BUSINESS MANAGEMENT
Course Number: BU1520
Prerequisites: None
Grade Level: 10-12
Credit: 1 credit yearlong course
Students study basic management concepts and leadership styles as they explore business ownership, planning, operations, finance, human relations and the global market place. Quality concepts, project management, problem-solving and ethical decision-making are an integral part of the course.
COMPUTER INFORMATION SYSTEMS
Course Number: BU1600
Prerequisites: None
Grade Level: 10-12
Credit: 1 credit yearlong course

Students apply problem-solving skills to real-life situations through word processing, spreadsheet, and database software; multimedia presentations; and integrated software activities. Students work individually and in groups to explore computer concepts, operating systems, networks, telecommunications and emerging technologies.

ADVANCED COMPUTER INFORMATION SYSTEMS (HONORS)
Course Number: BU1650
Prerequisites: Computer Information Systems
Grade Level: 11, 12
Credit: 1 credit yearlong course (+0.5 weighted credit)

Students apply problem-solving skills to real-life situations through advanced integrated software applications. Students work individually and in groups to explore advanced computer maintenance, website development, programming, networking, emerging technology and employability skills. Completion of this course may prepare the student for industry certification.

ACCOUNTING
Course Number: BU1710
Prerequisites: None
Grade Level: 10-12
Credit: 1 credit yearlong course

Students study the basic principles, concepts, and practices of the accounting cycle. Topics covered include analyzing transactions, journalizing and posting entries, preparing payroll records and financial statements, and managing cash systems. Students learn fundamental accounting procedures using a manual and an electronic system.

ADVANCED ACCOUNTING
Course Number: BU1740
Prerequisites: Accounting
Grade Level: 11, 12
Credit: 1 credit yearlong course (+0.5 weighted credit)

Students gain in-depth knowledge of accounting procedures and techniques used to solve business problems and make financial decisions. Students use accounting and spreadsheet software to analyze and interpret business applications.

ECONOMICS & PERSONAL FINANCE
Course Number: BU1750, BU1760
Prerequisites: None
Grade Level: 11, 12
Credit: 1 credit yearlong course

Students learn how to navigate the financial decisions they must face and to make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living independently and inheritance. Development of financial literacy skills and an understanding of economic principles will provide the basis for responsible citizenship and career success. In addition to developing personal finance skills, students in the 36-week course will also study basic occupational skills and concepts in preparation for entry-level employment in the field of finance. The course incorporates all economics and financial literacy objectives included in the Code of Virginia §22.1-200.03B.
DESIGN, MULTIMEDIA & WEB TECHNOLOGIES
Course Number: BU1800
Prerequisites: None
Grade Level: 10-12
Credit: 1 credit yearlong course
Students develop proficiency in creating desktop publications, multi-media presentations/projects, and websites incorporating principles of layout and design using industry standard application software. Students design portfolios that may include business cards, newsletters, mini-pages, web pages, multimedia presentations/ projects, calendars and graphics. Completion of this course may prepare students for industry certifications.

Family and Consumer Sciences

FAMILY AND CONSUMER SCIENCE EXPLORATORY I
Course Number: RN6FAC
Grade Level: 6
This course provides a foundation for managing individual, family, career, and community roles and responsibilities. Students focus on areas of individual growth, goal setting, strengthening families, and awareness of personal safety and wellness. They also explore saving and spending practices, clothing care, food preparation, positive and caring relationships with others; and careers.

FAMILY AND CONSUMER SCIENCE EXPLORATORY II
Course Number: WF7006
Grade Level: 7
Students focus on individual development, maintain their personal environments, apply nutrition and wellness practices, manage consumer and family resources, create textile, fashion, and apparel products, and explore careers related to Family and Consumer Sciences such as child care.

FAMILY AND CONSUMER SCIENCE EXPLORATORY III
Course Number: WF8006
Grade Level: 8
Students experience in-depth studies of nutrition and wellness, food preparation, relationships, personal environments; textiles, fashion and apparel, consumer resources, child development and care, and leadership service in action.

INTRODUCTION TO CULINARY ARTS
Course Number: WF1110
Prerequisites: None
Grade Level: 9-11
Credit: 1 credit yearlong course
The Introduction to Culinary Arts curriculum provides students with opportunities to explore career options and entrepreneurial opportunities within the food service industry. Students investigate food safety and sanitation, explore culinary preparation foundations, practice basic culinary skills, explore diverse cuisines and service styles, investigate nutrition and menu development, and examine the economics of food.

NUTRITION AND WELLNESS
Course Number: WF1130
Prerequisites: None
Grade Level: 9-11
Credit: 1 credit yearlong course
Students enrolled in Nutrition and Wellness focus on making choices that promote wellness and good health; analyzing relationships between psychological and social needs and food choices; choosing foods that promote wellness; obtaining and storing food for self and family; preparing and serving nutritious meals and snacks; selecting and using equipment for food preparation; and identifying strategies to promote optimal nutrition and wellness of society. Students will determine career options in the field of food science, nutrition and wellness.
FOOD SCIENCE AND DIETETICS  
Course Number: WF1200  
Prerequisites: Nutrition and Wellness or Introduction to Culinary Arts  
Co-requisite: Chemistry  
Grade Level: 11-12  
Credit: 1 credit yearlong course  
Through laboratory and other practical experiences, students will develop a deeper appreciation for the food system and the impact of science on the food and nutrition industries. Students will explore the food sources; the science and technology of food production and processing; and implications for individual and global health and wellness.

Health & Medical Sciences

INTRODUCTION TO HEALTH & MEDICAL SCIENCES  
Course Number: HS1100  
Prerequisites: None  
Grade Level: 9  
Credit: 1 credit yearlong course  
OFFERED ONLY AT WARWICK HIGH SCHOOL GOVERNOR’S HEALTH SCIENCES ACADEMY  
This course introduces the student to a variety of health care careers and develops basic skills required in all health and medical sciences. It is designed to help students understand the key elements of the U.S. health care system and to learn basic health care terminology, anatomy and physiology for each body system, pathologies, diagnostic and clinical procedures, therapeutic interventions, and the fundamentals of traumatic and medical emergency care. Throughout the course, instruction emphasizes safety, cleanliness, asepsis, professionalism, accountability and efficiency within the health care environment. Students also begin gaining job-seeking skills for entry into the health and medical sciences field. In addition, instruction may include the basics of medical laboratory procedures, pharmacology fundamentals, biotechnology concepts and communication skills essential for providing quality patient care.

PRINCIPLES OF BIOMEDICAL SCIENCE  
Course Number: HS3100  
Prerequisites: Enrolled in the Governor’s Health Sciences Academy for Biotechnology Research and Development  
Grade Level: 9  
Credit: 1 credit yearlong course  
OFFERED ONLY AT WARWICK HIGH SCHOOL GOVERNOR’S HEALTH SCIENCES ACADEMY  
In the introductory course of the Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person’s life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

HUMAN BODY SYSTEMS  
Course Number: HS3110  
Prerequisites: Successful completion of Principles of Biomedical Science  
Grade Level: 11  
Credit: 1 credit yearlong course  
OFFERED ONLY AT WARWICK HIGH SCHOOL GOVERNOR’S HEALTH SCIENCES ACADEMY  
Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal manikin, use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.
HEALTH INFORMATICS
Course Number:
Prerequisites: Introduction to Health & Medical Sciences
Grade Level: 10
Credit: 1 credit yearlong course
OFFERED ONLY AT WARWICK HIGH SCHOOL GOVERNOR’S HEALTH SCIENCES ACADEMY
Students will have the opportunity to explore the importance of safeguarding electronic healthcare information. Students will be introduced to the various technologies and trends that affect the healthcare industry to include the history of health information technology (IT) in the United States, the Electronic Health Record (EHR), ethical and privacy issues, and cybersecurity and data breaches.

HEALTH ASSISTING CAREERS
Course Number: HS4100
Prerequisites: Medical Terminology
Grade Level: 11
Credit: 1 credit yearlong course
OFFERED ONLY AT WARWICK HIGH SCHOOL GOVERNOR’S HEALTH SCIENCES ACADEMY
Students explore opportunities in the health care field by developing basic skills common to several assisting careers. They study body structure and function, principles of health, microbes, and disease, and an overview of the health and patient care system. Supervised work-based learning may begin as part of the course in health care setting and is managed by the health and medical sciences education teacher.

MEDICAL TERMINOLOGY
Course Number: HS2100
Prerequisites: Introduction to Health & Medical Sciences is recommended
Grade Level: 10
Credit: 1 credit yearlong course
OFFERED ONLY AT WARWICK HIGH SCHOOL GOVERNOR’S HEALTH SCIENCES ACADEMY
Medical Terminology 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.

HONORS MEDICAL CLINICAL PRACTICE I
Course Number: HS4150
Prerequisites: Introduction to Health and Medical Sciences
Grade Level: 12
Credit: 1 credit yearlong course (+0.5 weighted credit)
OFFERED ONLY AT WARWICK HIGH SCHOOL GOVERNOR’S HEALTH SCIENCES ACADEMY
Course is offered as an occupational preparation course beginning at the eleventh grade level, emphasizes the study of nursing occupations as related to the health care system. Students study normal growth and development, simple body structure and function, and medical terminology and are introduced to microbes and disease. They receive elementary skill training in patient-nursing assistant relationships; taking and recording of vital signs; cardiopulmonary resuscitation; and bathing, feeding, dressing, and transporting of patients in hospitals and nursing homes. Limited on-the-job instruction in nursing homes and hospitals is part of the course. This course can be used as an introduction to practical nursing.
MEDICAL LABORATORY TECHNOLOGY I
Course Number: HS5100
Prerequisites: Medical Terminology
Grade Level: 11
Credit: 1 credit yearlong course
OFFERED ONLY AT WARWICK HIGH SCHOOL GOVERNOR’S HEALTH SCIENCES ACADEMY
Students gain foundational knowledge and skills appropriate for a variety of medical-related career paths in the field of medical technology. Students are introduced to diagnostic and therapeutic laboratory procedures that support medical research and practice, and investigate safety, quality assurance, and ethical concerns associated with the field of medical technology.

HONORS MEDICAL LABORATORY TECHNOLOGY II
Course Number: HS5150
Prerequisites: Medical Laboratory Technology I
Grade Level: 12
Credit: 1 credit yearlong course (+0.5 weighted credit)
OFFERED ONLY AT WARWICK HIGH SCHOOL GOVERNOR’S HEALTH SCIENCE ACADEMY
Students will build on the foundational knowledge and skills obtained in Medical Laboratory Technology I. Students will use the basic principles necessary to perform competently in the areas of Hematology, Clinical Chemistry, Clinical Microbiology, Immunohematology, and Immunology/Serology. Competency includes performing the technique correctly, understanding the theory of the procedures, and interpreting the results. Weekly laboratory activities will stress actual student performance of the routine tests normally seen in the clinical setting.

MEDICAL INTERVENTIONS
Course Number: HS3120
Prerequisites: Successful completion of Human Body Systems
Grade Level: 11
Credit: 1 credit yearlong course
OFFERED ONLY AT WARWICK HIGH SCHOOL GOVERNOR’S HEALTH SCIENCES ACADEMY
Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

HONORS BIOMEDICAL INNOVATION
Course Number: HS3150
Prerequisites: Successful completion of Medical Interventions
Grade Level: 12
Credit: 1 credit yearlong course (+0.5 weighted credit)
OFFERED ONLY AT WARWICK HIGH SCHOOL GOVERNOR’S HEALTH SCIENCES ACADEMY
In the final course of the Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.
Marketing

MARKETING
Course Number: MK0100
Prerequisites: None
Grade Level: 11, 12

Credit: 1 credit yearlong course
Students examine activities in marketing and business important for success in marketing employment and postsecondary education. Students will learn how products are developed, branded and sold to businesses and consumers. Students will analyze industry trends and gain hands-on experience in the marketing of goods, services and ideas. Topics will include professionalism in the workplace, product planning and positioning, promotion, pricing, selling, economic issues and the impact of technology on the marketplace. This course reinforces mathematics, science, English and history/social science Standards of Learning (SOL).

ADVANCED MARKETING (HONORS)
Course Number: MK0250
Prerequisites: Marketing, Marketing Management, Sports & Entertainment Marketing or Fashion Marketing
Grade Level: 12
Credit: 1 credit yearlong course (+0.5 weighted credit)
Students gain knowledge of marketing functions as they relate to supervisory and management responsibilities and develop skills needed for advancement. Students will prepare for advancement in marketing careers and postsecondary education. Advanced Marketing is the advanced cooperative program, which allows students to pursue the development of marketing competencies necessary for advancement in full-time employment or postsecondary education in marketing.

FASHION MARKETING
Course Number: MK1200
Prerequisites: None
Grade Level: 9-12
Credit: 1 credit yearlong course
This specialized marketing course is offered for students who have identified an occupational interest in the wholesale or retail marketing of men’s, women’s, and/or children’s clothing and related items. Students will gain basic knowledge of the apparel and accessories industry and the skills necessary for successful employment in the apparel business. Emphasis is given to fashion purchasing and selling, fashion cycles, fashion coordination and sales promotion.

SPORTS AND ENTERTAINMENT MARKETING
Course Number: MK1300
Prerequisites: None
Grade Level: 10-12
Credit: 1 credit yearlong course
Sports, Entertainment and Recreation Marketing is a specialized course for students with a career interest in the fields of sports, entertainment or recreation. The course is designed to equip students with entry-level competencies in the areas of sponsorship, promotion, advertising, legal contracts, event marketing and communications. In addition, the course work provides students with a fundamental knowledge of global marketing and allows them to apply critical thinking and decision-making skills to current industry case studies. Guest speakers, field trips, short-term shadowing experiences and DECA participation provide relevance to the curriculum.
ENTREPRENEURSHIP EDUCATION
Course Number: MK1600
Prerequisites: None
Grade Level: 10-11
Credit: 1 credit yearlong course
In this course, students will be introduced to the exciting world of creating, owning, and launching their own businesses. Students will learn concepts and techniques for planning an innovative business and living the entrepreneurial lifestyle. They will learn the skills needed to build and manage a successful 21st century business.

ADVANCED ENTREPRENEURSHIP EDUCATION (HONORS)
Course Number: MK1750
Prerequisite: Entrepreneurship Education
Grade Level: 10-12
Credit: 1 credit yearlong course (+0.5 weighted credit)
This course is designed for students who wish to concentrate on advanced strategies for entrepreneurship, building upon concepts introduced in Entrepreneurship Education. The focus of the course is on development of a business plan and small business management. Students will establish, market, and maintain a business.

Military Science

AIR FORCE MILITARY SCIENCE I – IV
Course Number: MS1210, MS1220, MS1230, MS1250
Prerequisites: Senior Instructor recommendation for Air Force Military Science IV
Grade Level: 9-12
Credit: 1 credit yearlong course (+0.5 weighted credit for Air Force Military Science IV)
OFFERED ONLY AT MENCHVILLE HIGH SCHOOL
Four levels of Air Military Science are available and are designed to instill the values of citizenship, service and personal responsibility and to instill a sense of accomplishment. Instruction covers military history, management, leadership and customs and courtesies. Numerous extracurricular opportunities are available to cadet cops members including honorary societies, drill/color guard teams and athletics/physical fitness activities. Enrolled students must maintain acceptable standards of appearance, conduct and academic achievement. Cadets can compete for 3 and 4-year college scholarships. Air Force Military Science IV is an optional course designed for the Cadet corps. Enrollment is selective and requires senior instructor recommendation.

ARMY MILITARY SCIENCE I – IV
Course Number: MS1110, MS1120, MS1130, MS1150
Prerequisites: Senior Instructor recommendation for Army Military Science IV
Grade Level: 9-12
Credit: 1 credit yearlong course (+0.5 weighted credit for Army Military Science IV)
OFFERED ONLY AT DENBIGH HIGH SCHOOL
Four levels of Army Military Science are available and are designed to instill the values of citizenship, service and personal responsibility and to instill a sense of accomplishment. Instruction covers military history, management, leadership and customs and courtesies. Numerous extracurricular opportunities are available to cadet cops members including honorary societies, drill/color guard teams and athletics/physical fitness activities. Enrolled students must maintain acceptable standards of appearance, conduct and academic achievement. Cadets can compete for 3 and 4-year college scholarships. Army Military Science IV is an optional course designed for the Cadet corps. Enrollment is selective and requires senior instructor recommendation.
NAVAL MILITARY SCIENCE I – IV

Course Number: MS1310, MS1320, MS1330, MS1350
Prerequisites: Senior instructor recommendation for Naval Military Sciences IV
Grade Level: 9-12
Credit: 1 credit yearlong course (+0.5 weighted credit for Naval Military Science IV)

OFFERED ONLY AT HERITAGE HIGH SCHOOL & WARWICK HIGH SCHOOL

Four levels of Naval Military Science are available and are designed to instill the values of citizenship, service and personal responsibility and to instill a sense of accomplishment. Instruction covers military history, management, leadership and customs and courtesies. Numerous extracurricular opportunities are available to cadet corps members including honorary societies, drill/color guard teams and athletics/physical fitness activities. Enrolled students must maintain acceptable standards of appearance, conduct and academic achievement. Cadets can compete for 3 and 4-year college scholarships. Naval Military Science IV is an optional course designed for the Cadet corps. Enrollment is selective and requires senior instructor recommendation.

Technology Education

INTRODUCTION TO TECHNOLOGY

Course Number: RN6TEC
Grade Level: 6
Students study technological resources through problem-solving processes and various hands-on activities. They relate the impact of technology on society, environment, and culture to future consequences and decisions.

INVENTIONS & INNOVATIONS

Course Number: TE7006
Grade Level: 7
Students make models of significant inventions that have advanced society. After studying these developments, they explore contemporary technological problems facing them, their community, or the world and apply systematic procedures to invent new products or innovations as solutions.

TECHNOLOGICAL SYSTEMS

Course Number: TE8006
Grade Level: 8
Students combine resources and techniques to create systems, attaining comprehension of how technological systems work. Students will explore, design, analyze, and evaluate technological systems. By simulating systems and assessing their impacts, students gain insight into how to approach the problems and opportunities of a technological world. Students will also explore technology-oriented careers.

TECHNICAL DRAWING AND DESIGN

Course Number: TE0100
Prerequisites: None
Grade Level: 9-11
Credit: 1 credit yearlong course
In this foundation course, students learn the basic language of technical drawing and design, and they design, sketch, and make technical drawings, models, or prototypes of real design problems. The course is especially recommended for future engineering and architecture students.
ENGINEERING DRAWING AND DESIGN

Course Number: TE0200
Prerequisites: Technical Drawing and Design
Grade Level: 10-12
Credit: 1 credit yearlong course

Students use a graphic language for product design, technical illustration, evaluation of designs, and engineering drawings. They increase their understanding of drawing techniques learned in the prerequisite course. Students use computers, calculators, and descriptive geometry and adhere to established standards to solve design problems. They work in teams to design solutions for an identified need.

HONORS ARCHITECTURAL DRAWING AND DESIGN

Course Number: TE0350
Prerequisites: Technical Drawing and Design
Grade Level: 10-12
Credit: 1 credit yearlong course (+0.5 weighted credit)

Architectural Drawing is a course designed to present general principles, practices and techniques of residential and commercial building designs and rendering model making structural details and community planning. Students use computer-aided drawing and design (CAD) equipment and established standards or codes to prepare models for presentation.

HONORS DIGITAL ELECTRONICS IN ROBOTICS

Course Number: TE1170
Prerequisites: Principles of Engineering
Grade Level: 10
Credit: 1 credit yearlong course (+0.5 weighted credit)

OFFERED ONLY AT HERITAGE HIGH SCHOOL GOVERNOR’S STEM ACADEMY

Students use computer simulations to learn about the logic of electronics as they design, test, and actually construct circuits and devices. They apply control system programming and explore sequential logic and digital circuitry fundamentals. Topics in computer circuitry are also presented. This is a Project Lead the Way course.

FOUNDATIONS OF TECHNOLOGY

Course Number: TE2109
Prerequisites: None
Grade Level: 9
Credit: ½ credit

OFFERED ONLY AT HERITAGE HIGH SCHOOL GOVERNOR’S STEM ACADEMY SUMMER PROGRAM

Foundations of Technology is designed as the beginning high school course in technology education. Students acquire a foundational 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. They creatively apply mathematics, science, and engineering in the development of technology. This is a one semester course.

INTRODUCTION TO ENGINEERING DESIGN

Course Number: TE1400
Prerequisites: None
Grade Level: 9
Credit: 1 credit yearlong course

OFFERED ONLY AT HERITAGE HIGH SCHOOL GOVERNOR’S STEM ACADEMY

In this foundation course students use 3-D computer modeling software as they learn the engineering-design process and solve design problems for which they develop, analyze, and create product models. Students use the engineering design process, applying math, science, and engineering standards to hands-on projects. Students work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work. This is a Project Lead the Way course.
DIGITAL VISUALIZATION
Course Number: TE2200
Prerequisites: AP Computer Science Principles
Grade Level: 11
Credit: 1 credit yearlong course
OFFERED ONLY AT HERITAGE HIGH SCHOOL GOVERNOR'S STEM ACADEMY
Students will gain experiences related to computer animation by solving problems involving 3D object manipulation, storyboarding, texture mapping, lighting concepts and environmental geometry. They will produce animations that include interdisciplinary projects related to science, engineering and the entertainment industry. A major emphasis will be the production of a portfolio that showcases examples of original student work.

HONORS MODELING & SIMULATION TECHNOLOGY
Course Number: TE2350
Prerequisites: Digital Visualization
Grade Level: 12
Credit: 1 credit yearlong course (+0.5 weighted credit)
OFFERED ONLY AT HERITAGE HIGH SCHOOL GOVERNOR'S STEM ACADEMY
Students will explore the use of modeling, simulation, and game development software to solve real-world problems in science, technology, engineering and mathematics (STEM). The activities include evaluating physics simulations, programming games for educational purposes and creating visualization systems with 3D models. Students will develop an understanding of the systems, processes, tools and implications of the field of modeling and simulation technology.

HONORS CYBERSECURITY
Course Number: TE0550
Prerequisites: Computer Network Software Operations
Grade Level: 12
Credit: 1 credit yearlong course (+0.5 weighted credit)
OFFERED ONLY AT HERITAGE HIGH SCHOOL GOVERNOR'S STEM ACADEMY
Course will provide learners with principles of data and technology that frame and define cybersecurity. Students will gain insight into the importance of cybersecurity and the integral role of cybersecurity professionals. The interactive curriculum will provide a dynamic learning experience where users can explore foundational cybersecurity principles, security architecture, risk management, attacks, incidents, and emerging Information Technology and Information Security technologies.

PRINCIPLES OF ENGINEERING
Course Number: TE2400
Prerequisites: Introduction to Engineering Design
Grade Level: 10
Credit: 1 credit yearlong course
OFFERED ONLY AT HERITAGE HIGH SCHOOL GOVERNOR'S STEM ACADEMY
Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. This is a Project Lead the Way course.
HONORS ENGINEERING DESIGN & DEVELOPMENT

Course Number: TE1160
Prerequisites: Honors Digital Electronics in Robotics
Grade Level: 12
Credit: 1 credit yearlong course (+0.5 weighted credit)
OFFERED ONLY AT HERITAGE HIGH SCHOOL GOVERNOR’S STEM ACADEMY

The knowledge and skills students acquire throughout PLTW Engineering come together in Engineering Design and Development (EDD) as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career. 

This is a Project Lead the Way course.

Television Production

VIDEO & MEDIA TECHNOLOGY

Course Number: CM2100
Prerequisites: None
Grade Level: 9-10
Credit: 1 credit yearlong course
OFFERED ONLY AT WOODSIDE HIGH SCHOOL

This course offers students an opportunity to study all aspects of video and media productions, from planning and writing for production to operating studio and editing equipment. Students practice various methods of gathering news and information from individuals, research and online resources. In addition, students are introduced to analog and digital principles of film production.

TV & MEDIA PRODUCTION I

Course Number: CM2200
Prerequisites: Video & Media Technology
Grade Level: 10-11
Credit: 1 credit yearlong course
OFFERED ONLY AT WOODSIDE HIGH SCHOOL

Students will learn how to think and work like media producers by engaging hands-on production projects. Students will also gain proficiency with the media production process while using industry-standard tools. They will explore jobs and careers in the dynamic and growing industry of television and media production and understand the impact of media and its function as entertainment, persuasion, information and instruction.

HONORS TV & MEDIA PRODUCTION II

Course Number: CM1150
Prerequisites: TV & Media Production I
Grade Level: 11-12
Credit: 2 credit yearlong course (+0.5 weighted credit)
OFFERED ONLY AT WOODSIDE HIGH SCHOOL

Students will become media producers as they take real-world projects from conception to production. They will continue to develop and master skills that are essential to the industry as they function in various professional roles. In addition, the students will gain both breadth and depth in their abilities with the sophisticated tools and equipment involved in professional media production. They will develop an increased understanding of postsecondary and career pathways and will develop plans and portfolios to help them achieve their goals.
HONORS TV & MEDIA PRODUCTION III
Course Number: CM1250
Prerequisites: TV & Media Production II
Grade Level: 12
Credit: 2 credit yearlong course (+0.5 weighted credit)
OFFERED ONLY AT WOODSIDE HIGH SCHOOL

Students will demonstrate mastery of media production knowledge and skills. They will function as media producers by creating original productions as they develop and market programs for target audiences. Students will assemble a professional digital portfolio to advance postsecondary and career goals. They will investigate the dynamic media production industry and identify opportunities for real world experiences (e.g., internship, job shadowing). Students will research postsecondary opportunities and formulate strategies for both college and career success.

TELECOMMUNICATIONS I
Course Number: CM1300
Prerequisites: None
Grade Level: 11-12
Credit: 2 credit yearlong course (+0.5 weighted credit)
OFFERED ONLY AT THE TELECOMMUNICATIONS CENTER

Students will learn about the technological and competitive advances now transforming the communications industry. This course will introduce students to the basic concepts and structural elements of voice, video, and data communications industry. Topics will include an introduction to signal transmission, attenuation, distortion, and signal propagation over cables, fiber, and air. User-premises based telecommunications platforms, switching, wiring, and networking, as well as facilities that provide and support telecommunications systems will be studied. Students will participate in hands-on instruction to create video productions. Max enrollment: 20 students.

HONORS TELECOMMUNICATIONS II
Course Number: CM1350
Prerequisites: Telecommunications I
Grade Level: 11-12
Credit: 2 credit yearlong course (+0.5 weighted credit)
OFFERED ONLY AT THE TELECOMMUNICATIONS CENTER

Students will build on the foundations learned in Telecommunications I to learn about advanced telecommunication systems. Students participate in hands on instruction in TV and video production, producing and directing. Students will learn how to operate video cameras, video drones, audio and lighting equipment, and professional editing software to create and produce video projects including promotional videos, news packages, commercials and music videos. Through a special partnership with NASA, students produce educational videos for classroom instruction. Max enrollment: 20 students.

ENGLISH AS A SECOND LANGUAGE (ESL)
The English as a Second Language (ESL) program is the language instructional educational program provided to all students who are designated as an English Learner per a state approved English language assessment tool.

Recently arrived English Learners (ELs) at English Language Proficiency (ELP) levels 1.0-2.9, receive a minimum of two blocks (or as needed) of ESL instruction by an ESL teacher. These students also have the option to audit the following courses: World Geography, English 11, and/or Earth Science. Students registered under audit mode do not take the end-of-course assessment for that course and will not receive credit(s). These codes should be utilized to expose students to the academic language of the content and in preparation to retake the course under a credit bearing status.
English Learners at ELP levels 3.0-4.3, receive a minimum of one block of ESL instruction by an ESL teacher in either an ESL specific course or collaborative ESL content course.

ESL program services are offered at Denbigh High School.

**ESL I**

*Course Number: ES1110*

*Prerequisites: ESL Teacher / Welcome Center recommendation based on language assessment. Student must be enrolled in the ESL program.*

*Grade Level: 9-12*

*Credit: ½ English credit per semester and ½ elective credit per semester*

Students will be introduced to significant literary texts and extensive nonfiction while learning English and becoming familiar with U.S. culture and the rules, responsibilities, and opportunities of students in a U.S. high school. They will learn reading, writing, listening, speaking, and comprehension skills in English needed to function in an academic setting. Students learn vocabulary; study grammar, word order, and parts of speech; practice oral communication; and develop listening comprehension by learning sounds, intonation, and rhythm. Additional course content is determined by each student’s diagnosed needs.

**ESL II**

*Course Number: ES1120*

*Prerequisites: ESL I or ESL Teacher/Welcome Center recommendation based on language assessment. Student must be enrolled in the ESL program.*

*Grade Level: 9-12*

*Credit: ½ English credit per semester and ½ elective credit per semester*

Students will be introduced to significant literary texts and extensive nonfiction with a focus on literacy skills and content-specific language concepts that are aligned with the academic courses they are studying. Students continue to learn about American culture and customs. Students will increase vocabulary; expand knowledge of grammar; improve listening, oral, and reading comprehension; develop writing skills; and read about and discuss American customs, history, and geography. Writing will encompass narrative, expository and persuasive forms for a variety of purposes and audiences.

**ESL III**

*Course Number: ES1130*

*Prerequisites: ESL II or ESL Teacher/Welcome Center recommendation based on language assessment. Student must be enrolled in the ESL program.*

*Grade Level: 9-12*

*Credit: ½ elective credit per semester*

Students continue to gain proficiency in the English skills of listening, speaking, reading and writing with classwork being aligned to core academic requirements of English 9 or higher with adapted materials and appropriate accommodations. Students continue to learn about American history and culture nuances and become better prepared for other academic courses. Students will expand vocabulary in test-taking terminology, idioms, vocations, and daily situations; increase knowledge of grammar; improve listening comprehension and oral communication; and increase reading comprehension skills for standardized test preparation.
ESL IV
Course Number: ES1140
Prerequisites: ESL III or ESL Teacher/Welcome Center recommendation based on language assessment. Student must be enrolled in the ESL program.
Grade Level: 9-12
Credit: ½ elective credit per semester
Location: Denbigh HS
This course is designed for expanding level 4 ELs students who are preparing to exit the ESL program. Students will focus on listening, speaking, reading and writing aligned with the current content areas curricula for diagnostic reinforcement. They will expand vocabulary for daily living, competencies and standardized tests; master reading comprehension skills to include research/library skills, cause and effect, sequencing, and concepts rather than literal translation; and strengthen written communication and review grammar usage.

ESL LANGUAGE AND CULTURES I
Course Number: ES0110
Prerequisites: Designed for ESL level 1-2 students
Grade Level: 9-12
Credit: ½ World Language credit per semester or ½ elective credit per semester
Location: Denbigh HS
This course is designed to help recently arrived ELs adjust to life in their community and school environment. Students experience U.S. culture and customs through the printed word and use of hands-on materials such as phone books, money, calendars and much more. An introduction to American history and principles of basic math will be integrated into the study of culture and customs. This course will help students develop a vocabulary to express all aspects of American culture and will help them develop an awareness of the environment of the U.S. Students will read cross-cultural information, develop career goals and develop creative expressions and logical thinking.

ESL LANGUAGE AND CULTURES II
Course Number: ES0120
Prerequisites: Designed for ESL level 2-3 students
Grade Level: 9-12
Credit: ½ World Language credit per semester or ½ elective credit per semester
Location: Denbigh HS
This course is designed to help emerging and developing ELs adjust to life in their community and school environment. Students will have the opportunity to experience U.S. culture and customs through the printed word and use of hands-on materials such as phone books, money, calendars and much more. An introduction to American history and principles of basic math will be integrated into the study of culture and customs.

ESL SCIENCE FOUNDATIONS
Course Number: ES2100
Prerequisites: Recently arrived level 1-2 EL, ESL Welcome Center recommendation based on language assessment. Student must be enrolled in the ESL Program.
Grade Level: 9-11
Credit: ½ credit per semester
Students will be introduced to the language of science in all four major branches of science to include Biology, Earth Science, Chemistry and Physics. This course is designed to facilitate growth in language acquisition through the lens of science. Students will explore scientific concepts, build foundational science vocabulary, extend oral and written communication skills and increase nonfiction reading comprehension skills through this interactive course.
ENGLISH COURSES

ENGLISH 6
Course Number: EN6000
Prerequisites: None
Grade Level: 6
The sixth-grade student will independently read a variety of fiction and nonfiction, focusing on an appreciation of reading and overall comprehension of text. The student will plan, draft, revise, and edit narratives, descriptions, and explanations, and will also respond to short answer critical thinking questions, paying attention to composition and written expression, as well as usage and mechanics. The student will begin the study of word origins and continue authentic vocabulary development from anchor texts. The student will reflect on their growth as a writer. Additionally, technology will be used as a tool to research, organize, and communicate information. Critical thinking, communication, and collaboration will be stressed.

ENGLISH 7
Course Number: EN7000
Prerequisites: None
Grade Level: 7
The seventh-grade student will continue to read a wide variety of fiction and nonfiction, focusing on becoming more independent and analytical with text. The student will continue to refine written composition skills, with special attention to word choice, organization, style, and grammar. The student will continue authentic vocabulary development from anchor texts and will apply research techniques to gather, organize, and communicate information, properly citing sources. The student will reflect on their growth as a writer. Critical thinking, communication, and collaboration will be stressed.

ENGLISH 8
Course Number: EN8000
Prerequisites: None
Grade Level: 8
The student will continue to develop an appreciation for literary genres through a study of wide fiction and nonfiction selections. The student will focus on making inferences, drawing conclusions, interpreting cause-and-effect relationships, differentiating between fact and opinion, and drawing conclusions. The student will plan, draft, revise, and edit writing, with an emphasis on exposition and persuasion to include the counterclaim. The student will apply reading, writing, and research skills in all subjects, as well as respond critically to a wide variety of text. The student will reflect on their growth as a writer. The student will continue authentic vocabulary development from anchor texts. Critical thinking, communication, and collaboration will be stressed.

High School English Courses
Students must complete four years of required English courses. Summer reading is required of all English students 9-12. Students in grades 11 and 12 have the option of taking AP (Advanced Placement) English. Passing both the English EOC Reading and Writing SOL Tests are required for the two English verified credits needed for graduation.

ENGLISH 9
Course Number: EN1100, EN1200
Prerequisites: None
Grade Level: 9
Credit: ½ credit per semester (+0.5 weighted credit for EN1200 only)
The student will be introduced to various genres, focusing on a balance of fiction and nonfiction that are anchored by a Big Idea. Increased requirements for research and reporting in all subjects will be supported by the use of print, electronic databases, online resources, and other types of media. The student will distinguish between reliable and questionable sources of information. The student will continue authentic vocabulary development from anchor texts, with attention to connotation, idioms, and allusions, and their impact on a text. Writing will be primarily persuasive, for a wide variety of purposes, and audiences, and will include analysis of sources and textual evidence. The student will reflect on their growth as a writer. Critical thinking, communication, and collaboration will be stressed.
ENGLISH 10  
Course Number: EN2100, EN2200  
Prerequisites: None  
Grade Level: 10  
Credit: ½ credit per semester (+0.5 weighted credit for EN2200 only)  
The student will read and analyze a variety of literary texts from different eras and cultures, as well as nonfiction text that relates to the unit’s Big Idea. The student will reflect on their growth as a writer and will critique the writing of peers, using analysis to improve writing skills. The student will continue to build research skills by crediting sources and presenting information in a variety of formats appropriate for content. The student will continue authentic vocabulary development from anchor texts. Critical thinking, communication, and collaboration will be stressed.

ENGLISH 11  
Course Number: EN3100, EN3200  
Prerequisites: None  
Grade Level: 11  
Credit: ½ credit per semester (+0.5 weighted credit for EN3200 only)  
The eleventh-grade student will study both classical and contemporary American literature with nonfiction texts, paired together by the unit’s Big Idea. The student will be able to identify the prevalent themes and characterizations present in American literature, which are reflective of history and culture. The student will use fiction and nonfiction texts to draw conclusions and make inferences, using textual evidence to support their claims. The student will continue authentic vocabulary development from the anchor texts. The student will be able to effectively deliver content to their peers and write clear and accurate personal, professional, and informational correspondence with a focus on persuasion and counterclaim. The student will reflect on their growth as a writer. Critical thinking, communication, and collaboration will be stressed.

AP ENGLISH 11  
Course Number: EN3300  
Prerequisites: Satisfactory completion of English 9 and 10  
Grade Level: 11  
Credit: ½ credit per semester (+1.0 weighted credit)  
The AP English 11 course in Language and Composition is primarily a course in effective writing and critical reading. The writing skills that students come to appreciate through attentive and continued analysis of a variety of prose texts can serve them in their own writing as they become increasingly aware of these skills and their pertinent uses. American Literature is the primary focus for analysis and reflection. The instructional level equals that of college freshman English courses. All SOL requirements are met and students take both the English EOC Reading and the Writing SOL Tests. Students also prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college.

ENGLISH 12  
Course Number: EN4100, EN4200  
Prerequisites: None  
Grade Level: 12  
Credit: ½ credit per semester (+0.5 weighted credit for EN4200)  
The twelfth-grade students will read and analyze British literature, as well as nonfiction texts, to explore other cultures. The student will use organizational skills, audience awareness, appropriate grammar, and both verbal and nonverbal presentation skills to plan and deliver effective presentations to peers. This course contains content designed to provide successful transition and entry into college and careers. This course advances students’ preparation for critical thinking, college and workplace writing, and career-ready communications, and focuses on the fundamentals of academic writing, with a focus on persuasion and argumentation. The student will reflect on their growth as a writer. Critical thinking, communication, and collaboration will be stressed. Critical thinking, communication, and collaboration will be stressed.
AP ENGLISH 12  
Course Number: EN4300  
Prerequisites: Satisfactory completion of English 9, 10 and 11  
Grade Level: 12  
Credit: ½ credit per semester (+1.0 weighted credit)  
The AP English 12 course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Writing is an integral part of AP English. Students prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college.

BEGINNING COMPOSITION  
Course Number: EE2129  
Prerequisites: None  
Grade Level: 9, 10  
Credit: ½ credit  
Beginning Composition is designed to help students develop narrative, literary, expository, and technical writing to inform, explain, analyze, and entertain. The course will emphasize planning and organization, writing with a purpose, sentence development, and the use of specific vocabulary and information. Patterns of organization, revision techniques, and editing strategies for the correct use of language, spelling, punctuation, and capitalization will be addressed. **This is a one semester course.**

ADVANCED COMPOSITION  
Course Number: EE2130  
Prerequisites: Satisfactory completion of English 9 and 10  
Grade Level: 11, 12  
Credit: ½ credit per semester (+0.5 weighted credit)  
Advanced Composition is designed to give students the writing experience necessary to meet the expectations of college-level composition. Course topics include narration, description and exposition. This course is recommended for students in honors and AP classes.

CREATIVE WRITING  
Course Number: EE2009  
Prerequisites: Successful completion of English writing portfolio  
Grade Level: 9-12  
Credit: ½ credit per semester  
Creative writing is designed to help students develop creative writing skills and prepare manuscripts for publication. Students will create individual creative writing booklets, share work in a writer’s circle, and contribute to a classroom literary magazine. Whenever possible, students will share completed work with live audiences.

CREATIVE WRITING I  
Course Number: EE2010  
Prerequisites: None  
Grade Level: 9-12  
Credit: ½ credit per semester  
Students in Creative Writing I will establish skills for the writing of poetry and prose by reading and writing pieces in both genres regularly. They will explore all aspects of good writing through their studies and daily practice. Students will actively display growth through their ability to workshop, revise, and publish pieces in various genres.
CREATIVE WRITING II
Course Number: EE2020
Prerequisites: Creative Writing I or permission from instructor
Grade Level: 9-12
Credit: ½ credit per semester

Students in Creative Writing II will expand skills in poetry by exploring traditional and modern forms of poetry and creating their own unique poetic style and voice. They will further skills in prose by studying and writing fiction and nonfiction regularly. Students will actively display growth through the ability to workshop, revise, and publish pieces in various genres.

CREATIVE WRITING III
Course Number: EE2030
Prerequisites: Creative Writing II or permission from instructor
Grade Level: 9-12
Credit: ½ credit per semester

Students in Creative Writing III will expand their skills in poetry, fiction, and nonfiction and begin establishing skills in scriptwriting. Students will work closely with Creative Writing IV to edit, revise, and publish pieces for the literary magazine, establishing skills in technical writing, design, and editing. Students will actively display growth through the ability to workshop, revise, and publish pieces in various genres.

CREATIVE WRITING IV
Course Number: EE2040
Prerequisites: Creative Writing III or permission from instructor
Grade Level: 9-12
Credit: ½ credit per semester

Students in Creative Writing IV will expand their skills across all genres. Students will be responsible for six yearly publications in various mediums, including electronic and print publications. Students will actively strive to concrete their skills as creative and technical writers in this course, and they will display growth through the ability to workshop, revise, and publish pieces in various genres.

CAPSTONE CREATIVE WRITING (ADVANCED CREATIVE WRITING)
Course Number: EE2050
Prerequisites: Creative Writing I-IV (or specific approval from Ms. Weyland)
Corequisite: Creative Writing IV (or specific approval from Ms. Weyland)
Grade Level: 12
Credit: ½ credit per semester (+0.5 weighted credit)

Capstone Creative Writing is an honors creative writing course that will prepare students for a career as a published author. Students will complete three full manuscripts in the following genres: novels, play scripts, and poetry. This course will serve as a culminating experience for students in the creative writing magnet.* Students will prepare all three pieces for publication in this course, and they will be prepared for life as a professional writer/author after high school. Interested students not in the creative writing magnet must get approval from the creative writing teacher to participate in this class.

HONORS DEBATE I & II
Course Number: EE2310, EE2320
Prerequisites: None
Grade Level: 9-12
Credit: ½ credit per semester (+0.5 weighted credit)

Debate is designed to help students develop a wide repertoire of speaking skills while developing poise and confidence. The students will be exposed to a variety of speaking and debating experiences both in the classroom and in competition through engagement in multiple speech events sanctioned by the Virginia High School League, Tidewater Debate League and the National Forensic League. This course may be repeated for credit.
JOURNALISM I
Course Number: EE1100
Prerequisites: Successful completion of English 8 or 9
Grade Level: 9-12
Credit: ½ credit per semester
The Journalism I course introduces students to mass media and instructs students in various steps of reporting and news writing. Course content includes techniques for gathering the story, writing different types of stories, layout & design, and management & production of newspapers and other media.

HONORS JOURNALISM II
Course Number: EE1250
Prerequisites: Successful completion of Journalism I
Grade Level: 10-12
Credit: ½ credit per semester (+0.5 weighted credit)
Journalism II continues to develop a student’s ability to write in a journalistic style while improving personal writing style. Course content includes the types, styles, mechanics, and editing of news writing.

PHOTOJOURNALISM I
Course Number: EE1400
Prerequisites: Successful completion of English 9 and evidence of above average writing skills. The writing folder may be used for evidence of writing proficiency. Student interest and teacher recommendation will also be considered. Students must meet VHSL eligibility requirements due to the state publication competition that is part of the course requirement.
Grade Level: 10-12
Credit: ½ credit per semester
This course uses a curriculum for yearbook journalism, which will help the yearbook staff understand how to correctly communicate designs to the publisher. The course includes close-ups of common design application and copy preparation procedures required for printing. This course may be repeated for credit.

HONORS PHOTOJOURNALISM II
Course Number: EE1550
Prerequisites: Successful completion of Photojournalism I and teacher approval
Grade Level: 11-12
Credit: ½ credit per semester
A continuation of Photojournalism I, students will use the skills they have learned to work on the publication of the school yearbook. Students will use the interpersonal skills learned in Photojournalism I to interview students, collaborate with staff, and photograph events. Advertisements may be sold for publications.

LITERATURE & FILM I
Course Number: EE2219
Prerequisites: None
Grade Level: 11, 12
Credit: ½ credit
Literature and Film focuses on a comparative study of several novels and short stories and the films they inspired. Students will read selected literature, view and analyze elements of films, discuss and write analytical and comparative essays, and present independent and group projects to the class. The course emphasizes critical reading of literature and formal writing about films. This is a one semester course.
LITERATURE & FILM II: SCREENWRITING
Course Number: EE2249
Prerequisites: Literature & Film I
Grade Level: 11, 12
Credit: ½ credit

Literature and Film II is a writing-intensive, hands-on, project based course that will build on the objectives of the Literature and Film I course. Emphasis will be placed on structure and formatting of screenplays, as well as creating film sequences from storyboard to completion. Assignments include screen writing, storyboarding, organizing, and laying out a sequence of film and may also include filming, editing, and presenting a final student-generated short film of not less than 15 minutes. This is a one semester course.

PUBLIC SPEAKING
Course Number: EE2229
Prerequisites: None
Grade Level: 9-12
Credit: ½ credit

Public Speaking is designed to help students develop and improve public speaking and communication skills. Students will learn to plan, write, and deliver effective speeches and to communicate appropriately in group situations. Students will also design and create Power Point presentations, and use audio-visual equipment and visual aids to enhance the delivery of presentations. Oral interpretation skills will also be developed. This is a one semester course.

ANCIENT LITERATURE & MYTHOLOGY
Course Number: EE2239
Prerequisites: None
Grade Level: 9-12
Credit: ½ credit

Ancient Literature and Mythology focuses on developing a sense of cultural literacy, an understanding of multi-cultural literacy, and an enriched vocabulary. Students will study the mythology of Greece and Rome; writings from the Near and Middle East; and selections from Africa, Scandinavia, North, Central, and South America, and Asia. This is a one semester course.

PSAT/SAT PREP
Course Number: MC0069
Prerequisites: Algebra 1 and one semester Geometry
Grade Level: 10-12
Credit: no credit or ½ credit

Students will prepare for the verbal and math portions of the SAT. Students will also learn how to improve study skills, develop note-taking strategies and practice time management skills. This is a one semester course.

YOUNG ADULT LITERATURE
Course Number: EE2400
Prerequisites: None
Grade Level: 9, 10
Credit: ½ credit per semester

Young Adult Literature will enable students to examine several current novels for technique, style, language, theme and relationship to society. Students will keep response journals, participate in literature circles, and present book critiques. Mini projects on contemporary topics will help students understand life through the study of literature. Students may enter second semester.
THE GOVERNOR'S SCHOOL FOR SCIENCE AND TECHNOLOGY

COURSE OFFERINGS

Students in the Governor’s School for Science & Technology (GSST) program take the courses that follow. Students will 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. All courses are weighted, college-level courses.

ADVANCED CHEMICAL ANALYSIS
Course Number: NH6000
Prerequisites: High school Biology & Chemistry, Algebra II/Trig
Grade Level: 11
Credit: 2 weighted high school credits
Location: New Horizons Governor’s School

This course focuses on the fundamental principles and laws of chemistry. Extensive laboratory work will serve as the basic tools for students to explore chemistry topics. The course will provide insights into inorganic and organic 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. 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.

ADVANCED BIOLOGICAL ANALYSIS
Course Number: NH6010
Prerequisites: Pre-Calculus; Advanced Chemical Analysis
Grade Level: 12
Credit: 2 weighted high school credits
Location: New Horizons Governor’s School

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 student 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 of physiology of plants and animals. The laboratory experience is a major component of the course, allowing students the opportunity to use technologies applied in research as well as medical and forensic laboratories while designing their own experiments and analyzing and interpreting their results. The anatomy and physiology of various vertebrate organ systems will be compared while dissecting animals in the laboratory. Advanced Biological Analysis is a college-level course that examines the topics typically studied during the first year of college by biology majors.
**COMPUTATIONAL SCIENCE**  
*Course Number: NH6210*  
*Prerequisites: Algebra II/Trig*  
*Grade Level: 11*  
*Credit: 2 weighted high school credits for the yearlong course*  

*Location: New Horizon’s Governor’s School*

Computer Science Course objectives provide a study of the key concepts in object-oriented programming (Java / Python) and design (data abstraction, data encapsulation, composition, inheritance and code re-use and implementation design techniques), programming constructs (primitives, references, classes, methods and interfaces), evaluating expressions (numeric, string and Boolean), program analysis (testing, debugging, run-time exceptions, pre and post conditions, assertions, analysis of algorithms and numerical representation of integers), data structures (strings, lists, one and two dimensional arrays and their accompanying operations – traversals, insertion and deletion), searching (sequential and binary), sorting (selection, insertion and merge sort) and develop an understanding of the ethical and social issues as it relates to the study of Computer Science. The course is a non-calculus treatment of physics dealing with topics in classical and modern physics. Physics course objectives apply the equations of kinematics to predict the position and the velocity at a later time, Newton’s laws of motion to find the acceleration of the objects and to identify other forces in the system, the conservation laws (mechanical energy conservation, and momentum conservation, and angular momentum conservation) to compare the system before and after the interaction, find the solutions of problems involving rectilinear motion, parabolic motion, circular motion, & objects in equilibrium, apply the conservation laws to the solutions of problems involving collisions, conservative & nonconservative forces, understand the fluid mechanics, such as buoyant force and Bernoulli’s equation, solve problems involving thermal expansion, heat transfer, thermodynamic processes & the behavior of ideal gases. Second semester course focuses on fundamental principles of physics covering mechanics, thermodynamics, wave phenomena, electricity and magnetism, and selected topics in modern physics.

**ENGINEERING DESIGN INNOVATION AND ENTREPRENEURSHIP**  
*Course Number: NH6220*  
*Prerequisites: Computational Science and Pre-Calculus*  
*Grade Level: 12*  
*Credit: 2 weighted high school credits for the yearlong course*  

*Location: New Horizons Governor’s School*

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.

**COLLEGE MODERN PRE-CALCULUS**  
*Course Number: NH6090*  
*Prerequisites: Algebra II/Trig Grade Level: 11, 12*  
*Credit: 1 weighted high school credit for the yearlong course*  

*Location: New Horizons Governor’s School*

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.*
COLLEGE CALCULUS
Course Number: NH6080
Prerequisites: Pre-Calculus
Grade Level: 11, 12
Credit: 1 weighted high school credit
Location: New Horizons Governor's School
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. Successful completion of this course will prepare students to enroll in multivariable calculus/linear algebra.

MULTIVARIABLE CALCULUS/LINEAR ALGEBRA
Course Number: NH6100
Prerequisites: 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.
Grade Level: 12
Credit: 1 weighted high school credit for the yearlong course
Location: New Horizons Governor's School
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 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.

DIFFERENTIAL EQUATIONS AND MATH METHODS IN PHYSICS
Course Number: NH6150
Prerequisites: Multivariable Calculus/Linear Algebra and instructor permission
Grade Level: 12
Credit: 1 weighted high school credit
Location: New Horizons Governor's School
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 to 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.
STATISTICAL RESEARCH METHODS
Course Number: NH6110
Prerequisites: Pre-Calculus
Grade Level: 12
Credit: 1 weighted high school credit for the yearlong course
Location: New Horizons Governor’s School
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. 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 perspectives, simple and multiple regression analysis including linear, power, and exponential fit, confidence intervals, hypothesis testing for means and proportions, Chi-square, ANOVA, and several non-parametric testing, and design of experiments.

RESEARCH METHODOLOGY & ETHICS
Course Number: NH6120
Prerequisites: None
Grade Level: 11
Credit: 1 weighted high school credit for the yearlong course
Location: New Horizons Governor’s School
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.

ENVIRONMENTAL SCIENCE: RESEARCH APPLICATIONS/MENTORSHIP
Course Number: NH6130, NH6140
Prerequisites: Pre-Calculus
Grade Level: 12
Credit: 2 college-level weighted high school credits
Location: New Horizons Governor’s School
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 the 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.
CALCULUS-BASED ENGINEERING PHYSICS I & II: MECHANICS TO ELECTROMAGNETISM
Course Number: NH6021, NH6022
Prerequisites: Pre-Calculus
Co-requisite: Enrollment in GSST College Calculus Course
Grade Level: 11
Credit: 2 weighted high school credits for the yearlong course
Location: New Horizons Governor’s School
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 to 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.

CALCULUS-BASED ENGINEERING PHYSICS III & IV: MODERN PHYSICS & APPLIED PHYSICS - ENGINEERING DESIGN PRINCIPLES
Course Number: NH6031, NH6032
Prerequisites: Calculus-based Engineering Physics I and II, Calculus
Grade Level: 12
Credit: 2 weighted high school credits for the yearlong course
Location: New Horizons Governor’s School
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 also a series of project-based engineering learning experiences to help the student 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 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 and engineering leaders invited from community organizations such as NASA, SNAME, and the Jefferson Labs.
HEALTH AND PHYSICAL EDUCATION COURSES

6TH GRADE PHYSICAL EDUCATION & HEALTH
Course Number: PE6000
Prerequisites: None
Grade Level: 6
The middle school physical education curriculum provides students the opportunity to acquire the knowledge, processes, and skills to become physically educated, physically fit, and responsible in their physical activity choices and behaviors. Students will engage in meaningful physical activity in team sports, lifetime sports, and recreational activities that promote personal enjoyment, challenge, and a health-enhancing level of personal fitness. The health education curriculum addresses health, personal development, risky behaviors and safety topics for the middle school population. The program is designed to help students understand how to achieve and maintain good health for a lifetime. The Family Life curriculum is taught during the health classes.

7TH GRADE PHYSICAL EDUCATION & HEALTH
Course Number: PE7000
Prerequisites: None
Grade Level: 7
The middle school physical education curriculum provides students the opportunity to acquire the knowledge, processes, and skills to become physically educated, physically fit, and responsible in their physical activity choices and behaviors. Students will engage in meaningful physical activity in team sports, lifetime sports, and recreational activities that promote personal enjoyment, challenge, and a health-enhancing level of personal fitness. The health education curriculum addresses health, personal development, risky behaviors, and safety topics for the middle school population. The program is designed to help students understand how to achieve and maintain good health for a lifetime. The Family Life curriculum is taught during the health classes.

8TH GRADE PHYSICAL EDUCATION & HEALTH
Course Number: PE8000
Prerequisites: None
Grade Level: 8
The middle school physical education curriculum provides students the opportunity to acquire the knowledge, processes, and skills to become physically educated, physically fit, and responsible in their physical activity choices and behaviors. Students will engage in meaningful physical activity in team sports, lifetime sports, and recreational activities that promote personal enjoyment, challenge, and a health-enhancing level of personal fitness. The health education curriculum addresses health, personal development, risky behaviors, and safety topics for the middle school population. The program is designed to help students understand how to achieve and maintain good health for a lifetime. The Family Life curriculum is taught during the health classes.

High School Physical Education, Health, Dance and Sports Medicine
Students must complete two semesters (1/2 credit each) of physical education as part of the state-mandated graduation requirement. There are on-site courses as well as off-site courses offered during the school year and summer. Any classes taken on site (at your school during the regular school year) must begin with Lifetime Activities I, Team Activities I, or Dance Activities I. This includes students who have completed Outdoor Education I or Wellness & Fitness Management I off site and are completing their second requirement on site. Classes can also be taken off site and include the Wellness & Fitness Management I & II courses that are taken during the regular school year after school in approved fitness centers. In addition, there are the summer school offerings of Outdoor Education I & II courses, as well as Freshman Transition Outdoor Education, at Newport News Park. Both the Wellness & Fitness Management courses and the Outdoor Education courses have two sections each and can be taken to complete the physical education requirement.
Physical Education Offerings
The following courses can be taken in any order at any time unless otherwise noted by prerequisites. One total credit (two ½ credits) are required in physical education and one total credit (two ½ credits) in health education are required to satisfy division requirements and state standards for graduation. Courses are designed to meet student interest and provide wellness and fitness-based concepts that will encourage health and well-being for a lifetime.

LIFETIME ACTIVITIES I
Course Number: PE1209
Prerequisites: None
Grade Level: 9
Credit: ½ credit per semester
This class will introduce students to wellness and fitness-based concepts through participation in the following lifetime activities: archery, in-line skating, tennis, outdoor education. The five health-related fitness components along with the concepts and principles associated with the biomechanics of movement and physical activity, nutrition, energy balance, and social development will be stressed. Students will create a personal fitness plan based on individual needs and interests with application of learned fitness concepts and principles within the plan.

TEAM ACTIVITIES I
Course Number: PE1109
Prerequisites: None
Grade Level: 9
Credit: ½ credit per semester
This class will introduce students to wellness and fitness-based concepts through participation in the following team activities: floor hockey, tchoukball, softball, flag football. The five health-related fitness components along with the concepts and principles associated with the biomechanics of movement and physical activity, nutrition, energy balance, and social development will be stressed. Students will create a personal fitness plan based on individual needs and interests with application of learned fitness concepts and principles within the plan.

DANCE ACTIVITIES I
Course Number: PE1309
Prerequisites: None
Grade Level: 9
Credit: ½ credit per semester
This class will introduce students to wellness and fitness-based concepts through participation in the following dance activities: ballroom, folk, ballet, jazz, and square dance. The five health-related fitness components along with the concepts and principles associated with the biomechanics of movement and physical activity, nutrition, energy balance, and social development will be stressed. Students will create a personal fitness plan based on individual needs and interests with application of learned fitness concepts and principles within the plan.

LIFETIME ACTIVITIES II
Course Number: PE2209
Prerequisites: Lifetime Activities I, Team Activities I, Dance Activities I, Wellness & Fitness Management I or Outdoor Education I
Grade Level: 9-12
Credit: ½ credit per semester
This class will continue to build upon the wellness & fitness-based concepts learned in the first-tier physical education courses. Wellness and fitness-based concepts are instructed through participation in the following activities: golf, bowling, biking, and racket sports. The anatomical basis of movement along with the concepts and principles associated with motor skill development, fitness-planning, nutrition, and energy balance continue to be stressed. Students will update their personal fitness plan based on knowledge gained to reflect any changes in individual needs and interests.
TEAM ACTIVITIES II
Course Number: PE2109
Prerequisites: Lifetime Activities I, Team Activities I, Dance Activities I, Wellness & Fitness Management I or Outdoor Education I
Grade Level: 9-12
Credit: ½ credit per semester
This class will continue to build upon the wellness & fitness-based concepts learned in the first-tier physical education courses. Wellness and fitness-based concepts are instructed through participation in the following activities: ultimate frisbee, volleyball, basketball, and soccer. The anatomical basis of movement along with the concepts and principles associated with motor skill development, fitness-planning, nutrition, and energy balance continue to be stressed. Students will update their personal fitness plan based on knowledge gained to reflect any changes in individual needs and interests.

DANCE ACTIVITIES II
Course Number: PE2309
Prerequisites: Lifetime Activities I, Team Activities I, Dance Activities I, Wellness & Fitness Management I or Outdoor Education I
Grade Level: 9-12
Credit: ½ credit per semester
This class will continue to build upon the wellness & fitness-based concepts learned in the first-tier physical education courses. Wellness and fitness-based concepts are instructed through participation in the following activities: ballroom, line, tap, country, jazz and modern dance. The anatomical basis of movement along with the concepts and principles associated with motor skill development, fitness-planning, nutrition, and energy balance continue to be stressed. Students will update their personal fitness plan based on knowledge gained to reflect any changes in individual needs and interests.

INDIVIDUALIZED PHYSICAL EDUCATION I
Course Number: PE1409
Prerequisites: Physician Modified Activity Form required as well as collaborative identification and/or recommendation by IPE staff, school counselors, and physical education staff
Grade Level: 9-12
Credit: ½ credit per semester
This course is designed to allow students with physical limitations to participate in a modified lifetime activities physical education curriculum. The course is designed to provide the necessary modifications for each student that will allow for maximum participation in physical education based on individual limitations. The five health-related fitness components along with the concepts and principles associated with the biomechanics of movement and physical activity, nutrition, energy balance, and social development will be stressed. Students will create a personal fitness plan based on individual needs and limitations with application of learned fitness concepts and principles within the plan.

INDIVIDUALIZED PHYSICAL EDUCATION II
Course Number: PE2409
Prerequisites: Physician Modified Activity Form AND Individualized Physical Education I as well as collaborative identification and/or recommendation by IPE staff, school counselors, and physical education staff
Grade Level: 9-12
Credit: ½ credit per semester
This course is designed to allow students with physical limitations to participate in a modified lifetime activities physical education curriculum. The course is designed to provide the necessary modifications for each student that will allow for maximum participation in physical education based on individual limitations. This class will continue to build upon the wellness & fitness-based concepts learned in the first-tier physical education courses. The anatomical basis of movement along with the concepts and principles associated with motor skill development, fitness-planning, nutrition, and energy balance continue to be stressed. Students will update their personal fitness plan based on knowledge gained to reflect any changes in individual needs and interests.
WELLNESS & FITNESS MANAGEMENT I
Course Number: PE1609
Prerequisites: Student AND Parent MUST attend informational meeting prior to course start in order to enroll; Meeting time and location TBA.
Grade Level: 9-12
Credit: ½ credit per semester
OFFERED ONLY AS AN ONLINE OPTION DURING THE REGULAR SCHOOL YEAR
This is an online cooperative venture between approved fitness centers and NNPS for physical education credit. All instruction is online and students are expected to complete the course with limited teacher interaction. This course requires self-discipline and time-management skills. The course is identified as an 8th block class to be taken outside regular school hours. The five health-related fitness components along with the concepts and principles associated with the biomechanics of movement and physical activity, nutrition, energy balance, and social development will be stressed. Students will create a personal fitness plan based on individual needs and interests with application of learned fitness concepts and principles within the plan.

WELLNESS & FITNESS MANAGEMENT II
Course Number: PE2609
Prerequisites: Wellness and Fitness Management I; Student AND Parent MUST attend informational meeting prior to course start in order to enroll; Meeting date, time and location TBA.
Grade Level: 9-12
Credit: ½ credit per semester
OFFERED ONLY AS AN ONLINE OPTION DURING THE REGULAR SCHOOL YEAR
This is an on-line cooperative venture between approved fitness centers and NNPS for physical education credit. All instruction is online and students are expected to complete the course with limited teacher interaction. This course requires self-discipline and time-management skills. The course is identified as an 8th block class to be taken outside regular school hours. The anatomical basis of movement along with the concepts and principles associated with motor skill development, fitness planning, nutrition, and energy balance continue to be stressed. Students will update their personal fitness plan based on knowledge gained to reflect any changes in individual needs and interests.

OUTDOOR EDUCATION I
Course Number: PE3403
Prerequisites: None
Grade Level: 9-12
Credit: ½ credit per semester
OFFERED ONLY AT POINT OPTION DURING THE SCHOOL YEAR AND AT NEWPORT NEWS PARK DURING SUMMER SCHOOL IN TWO SEPARATE SESSIONS
This class will introduce students to wellness and fitness-based concepts through participation in the following outdoor activities: hiking, biking, canoeing, cooperative games, ropes initiatives, orienteering, camping, and archery. The five health-related fitness components along with the concepts and principles associated with the biomechanics of movement and physical activity, nutrition, energy balance, and social development will be stressed. Students will create a personal fitness plan based on individual needs and interests with application of learned fitness concepts and principles within the plan. This course is held at Newport News Park with a maximum enrollment of 13 students per class.
OUTDOOR EDUCATION II
Course Number: PE3413
Prerequisites: Outdoor Education I
Grade Level: 9-12
Credit: ½ credit per semester

OFFERED ONLY AT POINT OPTION DURING THE SCHOOL YEAR AND AT NEWPORT NEWS PARK DURING SUMMER SCHOOL IN TWO SEPARATE SESSIONS

This class will continue to build upon wellness and fitness-based concepts through participation in the following outdoor activities: hiking, biking, canoeing, cooperative games, ropes initiatives, orienteering, camping, and archery. The anatomical basis of movement along with the concepts and principles associated with motor skill development, fitness-planning, nutrition, and energy balance continue to be stressed. Students will update their personal fitness plan based on knowledge gained to reflect any changes in individual needs and interests. This course is held at Newport News Park with a maximum enrollment of 13 students per class.

Health Education Requirements and Offerings
Students must complete both Health I and Health II/Driver Education as required by the state for graduation. Each course is ½ credit toward graduation. There are on-site courses as well as summer school courses offered during the school year and summer.

HEALTH I
Course Number: PE0109
Prerequisites: None
Grade Level: 9
Credit: ½ credit per semester

This class is integrates a variety of health concepts, skills, and behaviors to plan for lifetime health and wellness. These include awareness and consequences of risky behaviors, disease prevention, overall wellness, and identification of community health resources. Students are encouraged to have an active role in creating a healthy lifestyle for themselves, their families, and their community.

HEALTH II/DRIVER EDUCATION
Course Number: PE0239
Prerequisites: Health I
Grade Level: 10
Credit: ½ credit per semester

This course is a combination of Health II and Driver Education with each subject being taught for a nine weeks period. Health II continues to build upon the health and wellness concepts introduced in Health I. Comprehensive health and wellness knowledge and skills are taught with student behavior reflective of a conceptual understanding of the issues associated with health maintenance. Community health and health-enhancing behaviors continue to be stressed. The driver education course is designed to provide students with a detailed understanding of the fundamentals of driving and to foster responsible driving attitudes and behaviors.

Electives for Physical Education, Health, Sports Medicine and Dance
The following courses are elective courses and may be taken after the required physical education and health courses have been fulfilled.

SPORTS MEDICINE
Course Number: PE0300
Prerequisites: Health I and Health II
Grade Level: 10-12
Credit: ½ credit per semester

This course covers basic anatomy, common athletic injuries, and how to care for these injuries using taping techniques, exercise and various modalities. This class will help further education in the field of medicine and assist students in their career choice. There is a nominal supply fee for each semester. This is an elective course.
ADVANCED TEAM SPORTS
Course Number: PE3100
Prerequisites: Two semesters of physical education and recommendation of physical education staff
Grade Level: 10-12
Credit: ½ credit per semester
This course is designed to develop specific sports skills and help students learn advanced strategies associated with team play. Apply rules and regulations by officiating games in each sport. Sports may include, but are not limited to, team handball, hockey, soccer, softball, volleyball and basketball. Students will also develop an awareness of career opportunities in the fields of coaching and officiating. Overall fitness, sportsmanship and leadership will be areas of emphasis. This is an elective course.

PERSONAL FITNESS I
Course Number: PE3200
Prerequisites: Two semesters of physical education and recommendation of physical education staff
Grade Level: 10-12
Credit: ½ credit per semester and can be taken as an elective after the two required prerequisite classes are completed
Personal Fitness focuses on development of fitness through activities such as team and individual sports; basic, step and boxer aerobics; weight training; circuit training; and power walking. Students will also develop personal fitness goals related to nutrition, weight management and disease prevention. This is an elective course.

PERSONAL FITNESS II
Course Number: PE3210
Prerequisites: Personal Fitness I, two semesters of physical education, and recommendation of physical education staff
Grade Level: 10-12
Credit: ½ credit per semester and can be taken as an elective after the two required prerequisite classes are completed
Personal Fitness II continues to focus on development of fitness through activities such as team and individual sports; weight training; circuit training; and fitness challenges. Students will also develop personal fitness goals related to nutrition, weight management and disease prevention. This is an elective course.

DANCE/FITNESS
Course Number: PE3300
Prerequisites: Two semesters of physical education and recommendation of physical education staff
Grade Level: 10-12
Credit: ½ credit per semester
Emphasis will be placed on various types of dance and fitness related activities. Personal fitness goals will be developed and implemented. Nutrition, weight training, aerobics and disease prevention will be included. This is an elective course.

TECHNIQUES OF DANCE I, II & III
Course Number: PE3510, PE3520, PE3530
Prerequisites: Instructor placement
Grade Level: 9-12
Credit: ½ credit per semester
OFFERED ONLY AT WOODSIDE HIGH SCHOOL
Students will receive technical training in Modern Dance, Ballet and Jazz. Emphasis is given to the performing aspect of dance. As students proceed to level II, they will explore anatomy and injury prevention as relevant to the dancer. Students will begin to explore basic choreography concepts in level III.
**CHOREOGRAPHY**  
*Course Number: PE3540*  
*Prerequisites: Instructor placement*  
*Grade Level: 9-12*  
*Credit: ½ credit per semester*  
OFFERED ONLY AT WOODSIDE HIGH SCHOOL

Students will learn the choreographic group devices during the first semester and individual choreographic projects during the second semester, while still maintaining technique learned in previous levels.

**WORLD DANCE**  
*Course Number: PE3550*  
*Prerequisites: Instructor placement & Techniques of Dance II*  
*Grade Level: 9-12*  
*Credit: ½ credit per semester*  
OFFERED ONLY AT WOODSIDE HIGH SCHOOL

Students will focus on a variety of world dance forms, including Flamenco, Balinese and African Diasporic dances. Students must have completed Techniques of Dance II prior to enrollment, and this class may be used as a physical education credit.

**HISTORY OF DANCE**  
*Course Number: MC4010*  
*Prerequisites: Techniques of Dance I & II or both Dance/P.E. I & II*  
*Grade Level: 11, 12*  
*Credit: ½ credit per semester*  
OFFERED ONLY AT WOODSIDE HIGH SCHOOL

The course is designed to cover the history of dance throughout various historical eras, as dance is a direct reflection of what is happening in society. Students will discuss how world events (wars, immigration, cultural practices and environment) help to shape the world of dance today. The course will also look at the codified methods of analyzing dance in terms of special awareness and the use of muscles, and how the bones and muscles work in conjunction to create unique human movement. The class will conclude with rhythmic analysis of music and rhythms and working with musical scores to create choreography. This is a required elective for the Dance Magnet.

**DANCE COMPANY**  
*Course Number: PE3560*  
*Prerequisites: Instructor placement*  
*Grade Level: 9-12*  
*Credit: ½ credit per semester*  
OFFERED ONLY AT WOODSIDE HIGH SCHOOL

Students will focus on creation and rehearsal of pieces for performance both in school and in the community. Placement is based on audition only. Students may be concurrently enrolled in another technical level.
THE INTERNATIONAL BACCALAUREATE (IB) PROGRAM COURSE OFFERINGS

The courses that follow are taken by students in the International Baccalaureate (IB) Program. However, where indicated, individual elective courses can be taken by students zoned for Warwick. The program requires that students enroll in the full curriculum, selecting a subject from each group.

The Arts

IB VISUAL ARTS I & II
Course Number: AR4100, AR4200
Prerequisites: Teacher recommendation and portfolio demonstrating serious interest and proficiency in art production
Grade Level: 11, 12
Credit: ½ credit per semester (+1.0 weighted credit)
The Visual Arts course enables students to engage in both practical exploration and artistic production, and in independent contextual, visual and critical investigation. The course is designed to enable students to study visual arts in higher education and also welcomes those students who seek life enrichment through visual arts. All students are encouraged to develop their creative and critical abilities and to enhance their knowledge, appreciation and enjoyment of visual arts. Students must complete research and writing assignments as well as hands-on work. This is an IB elective course.

IB MUSIC I & II
Course Number: MU4310, MU4320
Prerequisites: Students must have some music background
Grade Level: 11, 12
Credit: ½ credit per semester (+1.0 weighted credit)
Through the music course students develop their knowledge and potential as musicians, both personally and collaboratively. Involving aspects of the composition, performance and critical analysis of music, the course exposes students to forms, styles and functions of music from a wide range of historical and socio-cultural contexts. Students create, participate in, and reflect upon music from their own background and those of others. They develop practical and communicative skills which provide them with the opportunity to engage in music for further study, as well as for lifetime enjoyment. This is an IB elective course.

IB THEATRE I & II
Course Number: EE0510, EE0520
Prerequisites: None
Grade Level: 11, 12
Credit: ½ credit per semester (+1.0 weighted credit)
The Theatre course is designed to encourage students to examine theatre in its diversity of forms from around the world. This may be achieved through a critical study of the theory, history and culture of theatre and will find expression through workshops, compositions, or scripted performance. Students will come to understand that the act of imagining, creating, presenting and critically reflecting on theatre in its past and present contexts embodies the individual and social need to investigate and find explanations for the world around us. The theatre course emphasizes the importance of working individually and as a member of an ensemble. Students are encouraged to develop the organizational and technical skills needed to express themselves creatively in theatre. This is an IB elective course.
IB FILM I & II
Course Number: EE0710, EE0720
Prerequisites: None
Grade Level: 11, 12
Credit: ½ credit per semester (+1.0 weighted credit)

Through the study and analysis of film texts and exercises in film-making, the film course explores film history, theory, and socio-economic background. The course develops students’ critical abilities, enabling them to appreciate the multiplicity of cultural and historical perspectives in film. To achieve an international understanding within the world of film, students are taught to consider film texts, theories and ideas from the points of view of different individuals, nations and cultures. This is an IB elective course.

Experimental Science
The sciences are offered to provide students with opportunity for search and discovery; opportunity for development/understanding of the knowledge of science principles and concepts; and opportunity for the application of knowledge and skills to generate new knowledge and to encourage an awareness of the impact of science on society to prepare for life in a technological age.

IB BIOLOGY
Course Number: SC2410, SC2420, SC2400
Prerequisites: Satisfactory completion of Biology and Chemistry in grades 9 and 10
Grade Level: 11, 12
Credit: ½ credit per semester (+1.0 weighted credit)

IB Biology studies the fundamental characteristics of living matter from the molecular level to the vertebrate organism including cells, chemistry of life, genetics, ecology, human health and physiology, nucleic acids and proteins and plant studies.

IB CHEMISTRY
Course Number: SC3400, SC3410, SC3420
Prerequisites: Satisfactory completion of Biology and Chemistry in grades 9 and 10
Grade Level: 11, 12
Credit: ½ credit per semester (+1.0 weighted credit)

IB Chemistry investigates stoichiometry, atomic theory, bonding, energetics, kinetics, oxidation and reduction and organic chemistry.

IB PHYSICS
Course Number: SC4410, SC4420, SC4430
Prerequisites: Satisfactory completion of Biology and Chemistry in grades 9 and 10
Grade Level: 11, 12
Credit: ½ credit per semester (+1.0 weighted credit)

IB Physics is an in-depth study of the laws of physics experimental skills, mechanics, optics, sound, electricity, magnetism, atomic and nuclear physics, thermodynamics and biomedical physics.

IB ENVIRONMENTAL SYSTEMS
Course Number: SC1400
Prerequisites: Satisfactory completion of Biology and Chemistry in grades 9 and 10
Grade Level: 11, 12
Credit: ½ credit per semester (+1.0 weighted credit)

IB Environmental Systems provides students with a coherent perspective on the environment; one that is essentially scientific and that enables them to adopt an informed and responsible stance on the wide range of pressing environmental issues that they will inevitably come to face.
Individuals & Societies

**IB HISTORY OF THE AMERICAS**
*Course Number: SS2310, SS3310*

*Prerequisites:* Satisfactory completion of World History or World Geography and Government in grades 9 and 10

*Grade Level:* 11, 12

*Credit:* ½ credit per semester (+1.0 weighted credit)

The course aims to promote the acquisition of knowledge and understanding of the past that will serve both as a basis for the development and practice of appropriate skills, and for a better understanding of the present. It seeks to develop an awareness of continuity, change, and different interpretations of the past. Emphasis is placed on studies of the Americas from Canada to South America and 20th century world topics. This course will satisfy the U.S. History credit requirement for the Standard or Advanced Studies diploma. All students take the U. S. History SOL test to earn a verified credit toward graduation.

**IB SOCIAL & CULTURAL ANTHROPOLOGY I & II**
*Course Number: SS5510, SS5520*

*Prerequisites:* None

*Grade Level:* 11, 12

*Credit:* ½ credit per semester (+1.0 weighted credit)

The Social and Cultural Anthropology course offers students the opportunity to explore and understand humankind in all its diversity through the comparative study of cultures and human societies. It places special emphasis on comparative perspectives that challenge cultural assumptions. Anthropology fosters the development of citizens who are globally aware and ethically sensitive. Students in Social and Cultural Anthropology I will come to appreciate how anthropology contributes to an understanding of contemporary issues. *This is an IB elective course.*

**IB PSYCHOLOGY**
*Course Number: SS5310*

*Prerequisites:* None

*Grade Level:* 11, 12

*Credit:* ½ credit per semester (+1.0 weighted credit)

Psychology is the systematic study of human behavior and mental processes. Students can expect to develop an understanding of how psychological knowledge is generated, developed, and applied; resulting in a greater appreciation for the diversity of human behavior. *This is an IB elective course.*

**IB BUSINESS & MANAGEMENT I & II**
*Course Number: BU1530, BU1540*

*Prerequisites:* None

*Grade Level:* 11, 12

*Credit:* ½ credit per semester (+1.0 weighted credit)

The Business and Management course is designed to develop an understanding of business theory and an ability to apply business principles, practices and skills. It aims to encourage a holistic view of the world of business by promoting an awareness of social and ethical factors in the actions of organizations and individuals in those organizations. Developing international mindedness and an awareness of different cultural perspectives provides students the skills to think critically and appreciate the nature and significance of change in a local and global context. *This is an IB elective course.*
IB INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY I & II
Course Number: BU1030, BU1040
Prerequisites: None
Grade Level: 11, 12
Credit: ½ credit per semester (+1.0 weighted credit)
Information Technology in a Global Society is the study and evaluation of the impact of information technology on individuals and society. It explores the advantages and disadvantages of the use of digitized information at the local and global level. It uses an integrated approach, encouraging students to make informed judgments and decisions about the role of information and communication technologies in contemporary society. This is an IB elective course.

IB PHILOSOPHY I & II
Course Number: MC0050, MC0060
Prerequisites: None
Grade Level: 11, 12
Credit: ½ credit per semester (+1.0 weighted credit)
The emphasis of the Philosophy course is on "doing" philosophy. It focuses on developing students' ability to formulate arguments in a sound and purposeful way, and encourages students to develop intellectually independent and creative ways of thinking. A concern with clarity of understanding lies at the core of the philosophy course. This clarity is achieved through critical and systematic thinking, careful analysis of arguments, and the study of philosophical themes and a close reading of philosophical texts. Through this examination of themes and text the philosophy course allows students to explore fundamental questions that people have asked throughout human history. This is an IB elective course.

Language Acquisition

IB LANGUAGE B
Course Number: Spanish – WL0700, French – WL1700, German – WL2700
Prerequisites: Satisfactory completion of levels 1-3 by the end of grade 10
Grade Level: 11, 12
Credit: ½ credit per semester (+1.0 weighted credit)
IB Language B is the study of a world language. Available languages are French, German and Spanish. The aim of the course is to develop speaking, listening, reading and writing skills in the target language and to prepare students to use the language appropriately in a range of situations and contexts.

Mathematics

IB MATH STUDIES
Course Number: MA4110
Prerequisites: Satisfactory completion of math through Algebra II & Trigonometry in grades 9 through 11
Grade Level: 12
Credit: ½ credit per semester (+1.0 weighted credit)
Math Studies provides a realistic mathematics course for students with varied backgrounds and abilities. The skills needed to cope with the mathematical demands of a technological society are developed with emphasis placed on the application of mathematics to real-life situations.

IB MATHEMATICS SL
Course Number: MA4120, MA4420
Prerequisites: Satisfactory completion of math through Algebra II & Trigonometry in grades 9 through 10
Grade Level: 11, 12
Credit: ½ credit per semester (+1.0 weighted credit)
Mathematics SL is designed for the student entering eleventh grade having completed Algebra II & Trigonometry successfully and with the intent to study calculus before graduating high school.
IB MATHEMATICS HL
Course Number: MA4410, MA4430
Prerequisites: Satisfactory completion of math through BC Calculus in grades 9 through 11
Grade Level: 12
Credit: ½ credit per semester (+1.0 weighted credit)
Mathematics HL serves students who have completed Math Analysis in the tenth grade and who have a strong math background with a history of success in mathematics.

Studies in Language and Literature

IB LANGUAGE A: LITERATURE
Course Number: EN 3310, EN 4310
Prerequisites: Satisfactory completion of English 9 and 10
Grade Level: 11, 12
Credit: ½ credit per semester (+1.0 weighted credit)
IB English is the study of the language of the country where the course is taught. It is a two-year course that seeks to facilitate the clear expression of ideas; to aid clear, precise presentation of argument; and to assist in the understanding of both oral and written discourse. Its aims are to promote an international perspective through the comparative study of works from the students’ own culture and other cultures and to develop understanding and appreciation of the relationships between different works including detailed and critical analysis of written text. All SOL requirements are met and students take the both the English EOC Reading and the Writing SOL Test to earn verified credits toward graduation.

Additional Requirements

IB THEORY OF KNOWLEDGE
Course Number: MC0039, MC0049
Prerequisites: None
Grade Level: 11, 12
Credit: ½ credit per semester (+1.0 weighted credit)
Theory of Knowledge is a key element in the educational philosophy of the International Baccalaureate. The course is philosophical in the sense that it is meant to encourage students to acquire a critical awareness of what they and others know through analyzing concepts and arguments and the basis of value judgments. It aims to develop a personal mode of thought based on critical examination of evidence expressed in rational arguments. This is a required course for all IB Diploma students.

MATHEMATICS COURSES

MATH 6
Course Number: MA6310, MA6410
Prerequisites: None
Grade Level: 6
Students are transitioned from the emphasis placed on whole number arithmetic in the elementary grades to foundations of algebra. This course emphasizes rational numbers. Students will use ratios to compare data sets; recognize decimals, fractions, and percents as ratios; solve single-step and multi-step problems, using rational numbers; and gain a foundation in the understanding of integers. Students will solve linear equations and use algebraic terminology. Students will solve problems involving area, perimeter, and surface area, work with π (pi), and focus on the relationships among the properties of quadrilaterals. In addition, students will focus on applications of probability and statistics. An advanced course is also available.
MATH 7  
Course Number: MA7310, MA7410  
Prerequisites: None  
Grade Level: 7  
The foundations of algebra are emphasized. Students who successfully complete the grade seven course should be prepared to study Algebra I in grade eight. Topics in grade seven include proportional reasoning, integer computation, solving two-step linear equations and recognizing different representations for relationships. Students will apply the properties of real numbers in solving equations, solve inequalities, and use data analysis techniques to make inferences, conjectures, and predictions. An advanced course is also available.

MATH 8 – TRANSITION TO ALGEBRA  
Course Number: MA8410  
Prerequisites: None  
Grade Level: 8  
Students will be introduced to content that reviews or extends concepts and skills learned in previous grades as well as new content that prepares students for more abstract concepts in algebra and geometry. The eighth-grade standards provide students additional instruction and time to acquire the concepts and skills necessary for success in Algebra I. Students will gain proficiency in computation with rational numbers and will use proportions to solve a variety of problems. New concepts include solving multi-step equations and inequalities, graphing linear equations, visualizing three-dimensional shapes represented in two-dimensional drawings and applying transformations to geometric shapes in the coordinate plane. Students will verify and apply the Pythagorean Theorem and represent relations and functions, using tables, graphs and rules. The eighth-grade standards provide a more solid foundation in Algebra I for those students not ready for Algebra I in grade eight.

ALGEBRA I  
Course Number: MA1010, MA1111, MA1020, MA1100  
Prerequisites: None  
Grade Level: 9-12  
Credit: ½ credit per semester  
Algebra I is the study of linear and quadratic equations (functions) and inequalities including rational fractional and irrational equations numbers. It is offered one or two periods, one or two years. Passing the Algebra I SOL test is required to earn a verified credit toward graduation.

GEOMETRY  
Course Number: MA2010, MA2100, MA2200  
Prerequisites: Algebra I  
Grade Level: 9-12  
Credit: ½ credit per semester (+0.5 weighted credit for MA2200 only)  
Geometry is a deductive study of Euclidean geometry including space geometry and coordinate geometry. An emphasis is placed on logical reasoning and deductive proof. It is offered one or two periods. An Honors level is available. Passing the Geometry SOL test is required to earn a verified credit toward graduation.

ALGEBRA, FUNCTIONS & DATA ANALYSIS  
Course Number: MA2300  
Prerequisites: Algebra I  
Grade Level: 9-12  
Credit: ½ credit per semester  
The course is designed for students who have successfully completed the standards for Algebra I. Within the context of mathematical modeling and data analysis, students will study functions and their behaviors, systems of inequalities, probability, experimental design and implementation, and analysis of data. Data will be generated by practical applications arising from science, business and finance. Students will solve problems that require the formulations of linear, quadratic, exponential or logarithmic equations or a system of equations.
ALGEBRA II  
Course Number: MA3100, MA3220  
Prerequisites: Algebra I or Geometry  
Grade Level: 9-12  
Credit: ½ credit per semester  
Algebra II is a one-year study of intermediate algebra. The course includes a review of Algebra I topics. New topics studied are sequences and series, logarithmic and exponential functions, complex numbers, and analytic geometry. An Honors course is also available. Passing the Algebra II SOL test is required to earn a verified credit toward graduation.

TRIGONOMETRY/ELEMENTARY FUNCTIONS  
Course Number: MA3300  
Prerequisites: Algebra II  
Grade Level: 11, 12  
Credit: ½ credit per semester  
Trigonometry is a study of trigonometric and circular functions and their inverses. The course also includes an introduction to polar coordinates and vectors. Second semester is a study of elementary functions emphasizing the properties of algebraic functions.

PROBABILITY & STATISTICS  
Course Number: MA3500  
Prerequisites: Algebra II  
Grade Level: 11, 12  
Credit: ½ credit per semester  
Probability and Statistics is a one-year course designed to introduce students to statistical procedures as they apply to real life applications. Students will study data analysis and production, probability and statistical simulation.

HONORS MATHEMATICAL ANALYSIS  
Course Number: MA4100  
Prerequisites: Honors Algebra II or Trigonometry/Elementary Functions  
Grade Level: 11, 12  
Credit: ½ credit per semester (+0.5 weighted credit)  
Mathematical Analysis is a year study of pre-calculus material. An emphasis is placed on mathematical proof. The course covers a study of infinite sequences and series, analytic geometry from a vector approach, and algebraic, exponential, logarithmic, and trigonometric functions. Dual enrollment college credit may be offered for this course at some school sites. Check with your counselor for availability.

AP CALCULUS AB  
Course Number: MA4200  
Prerequisites: Mathematical Analysis  
Grade Level: 11, 12  
Credit: ½ credit per semester (+1.0 weighted credit)  
Calculus AB is a one-year course intended for students who have a thorough knowledge of algebra, analytic and axiomatic geometry, and trigonometry. It includes the study of elementary functions and differential and integral calculus. Students prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college. Dual enrollment college credit may be offered for this course at some school sites. Check with your counselor for availability.
AP CALCULUS BC
Course Number: MA4300
Prerequisites: Mathematical Analysis
Grade Level: 11, 12
Credit: 1 credit per semester (+1.0 weighted credit)

Calculus BC is a two period one-year course intended for students who have a thorough knowledge of algebra, analytic and axiomatic geometry, and trigonometry. All of the Calculus AB topics are included along with additional advanced topics. Students prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college.

AP STATISTICS
Course Number: MA4500
Prerequisites: Math Analysis or Trigonometry/Elementary Functions
Grade Level: 11, 12
Credit: ½ credit per semester (+weighted credit)

AP Statistics is a one year study of major statistics concepts and the tools for collecting, analyzing, and drawing conclusions from data. Students prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college. With appropriate recommendation this may be taken concurrently with math analysis.

PSAT/SAT PREP
Course Number: MC0069
Prerequisites: Algebra I and one semester of Geometry
Grade Level: 10-12
Credit: ½ credit

Students will prepare for the math and verbal portions of the SAT. Students will also learn how to improve study skills, develop note-taking strategies, and practice time management skills. This is a one semester course.

AP COMPUTER SCIENCE IN JAVA
Course Number: MA5300
Prerequisites: H Algebra II and H Computer Programming in C++
Grade Level: 11, 12
Credit: ½ credit per semester (+1.0 weighted credit)

Computer Science extends the concepts of programming studied previously. Programming is done using JAVA. Enrollment is limited to available equipment and facilities. Students prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college.
MISCELLANEOUS ELECTIVE COURSES

COLLEGE & CAREER PREP
Course Number: MC0400
Prerequisites: None
Grade Level: 9-12
Credit: 1/2 credit per semester
This course is designed to empower students to succeed in rigorous academic curriculum while preparing them to be college, career and citizen ready. Strategies will be shared in study skills, organizational skills, communication skills, oral interpretation skills, writing, test-taking strategies, personal development and team building. Students will maintain a portfolio and will be provided skills to maintain and continue it through high school. Students will design and create power point presentations and use audio-visual equipment and visual aids to enhance the delivery of presentations. Students will prepare for verbal and math portions of the PSAT, SAT and ACT by learning how to improve study skills, develop note-taking strategies, practice time management skills and utilizing current software and practice exercises. Students will have an opportunity to visit local colleges, businesses and participate in cultural field trips and explore career and college expectations through invited community guest speakers. Students will receive an elective credit and may sign up for this course through their school counselor.

FRESHMAN SEMINAR
Course Number: MC0079
Prerequisites: Recommendation
Grade Level: 9
Credit: ½ credit per semester
The Freshman Seminar will use the CollegeEd curriculum, which is designed to engage students in the college and career planning process. The course will focus on conveying important messages and practical information about colleges, careers, academic planning and relationship building. Students will visit colleges/universities and participate in cultural events.

SERVICE LEARNING INTERNSHIP
Course Number: MC0409
Prerequisites: Contract
Grade Level: 12
Credit: ½ credit per semester
Service Learning Internship is designed for students to connect their interests, skills, and abilities with school-based, business-based, and community-based projects in an effort to improve communities, refine student employment skills, and provide students with real-life experiences for future careers. The service learning yearlong course will provide students with an opportunity to give time, energy, and service to local schools, community organizations, businesses, and governing agencies while building a portfolio of job-like experiences. This course requires a contract that provides guidelines and requirements for the service learning project. A total of 140 hours of service (70 hours per semester) will be documented for this credit. Each service learner will work with a school-based mentor or community mentor to coordinate the effort.

HONORS INTERNSHIP
Course Number: MC1500
Prerequisites: Application
Grade Level: 12
Credit: ½ credit per semester (+0.5 weighted credit)
The Honors Internship Program will provide students with an opportunity to practice and refine their career skills in a real work environment. Students work at least 250 hours in a supervised (125 hours per semester), school-approved job that is related to their career interests.
**STEMINAR**  
*Course Number: MC0029*  
*Prerequisites: None*  
*Grade Level: 12*  
*Credit: ½ credit per semester*

Offered Only at Heritage High School Governor’s STEM Academy

This course is designed to advance student’s preparation in critical reading, technical writing, college and workplace readiness and career-ready communication. Students enhance their skills in STEM by participating in STEM work-based learning experiences to include participation in job shadowing and internships; creation of electronic portfolios; and digital media portfolios.

**TEACHING FOR TOMORROW**  
*Course Number: MC1000*  
*Prerequisites: Minimum 2.7 GPA or Teacher Recommendation*  
*Grade Level: 11, 12*  
*Credit: ½ credit per semester*

This course will nurture and initiate training for students who may be interested in pursuing a teaching career. Students will receive insight into the nature of teaching, the problems of schooling and the critical issues in education. Students will study growth and development, the history of education, current trends in education, learning styles and teaching strategies. Students will have the opportunity to observe teachers at the elementary, middle or high school level.

**MUSIC COURSES**

**CHORUS GRADE 6**  
*Course Number: MU6009*  
*Prerequisites: None*  
*Grade Level: 6*  
Chorus Grade 6 introduces fundamental vocal development, traditional notation, and the introduction to ensemble singing. This course requires performance, creativity and investigation at a fundamental level.

**CHORUS GRADE 7**  
*Course Number: MU7009, MU7010*  
*Prerequisites: None*  
*Grade Level: 7*  
Chorus Grade 7 emphasizes fundamental vocal development, traditional notation and the introduction to ensemble singing. This course requires performance, creativity and investigation at a fundamental level.

**CHORUS GRADE 8**  
*Course Number: MU8009, MU8010*  
*Prerequisites: None*  
*Grade Level: 8*  
Chorus Grade 8 emphasizes developing good fundamental vocal tone quality, traditional notation, ensemble singing and introduction to discriminative listening. Students are required to participate in performances as part of the course.
BAND GRADE 6
Course Number: MU6100
Prerequisites: None
Grade Level: 6
Students will begin instruction on a band instrument. Students will demonstrate proper care of the instrument and will be familiar with the technology of the instrument. They will demonstrate basic positions, tone production and fingerings, and will count, read and perform the beginning level of music being studied.

BAND GRADE 7
Course Number: MU7100, MU7110
Prerequisites: None
Grade Level: 7
Students may begin or continue instruction on a band instrument. Students will demonstrate proper care of the instrument and will be familiar with the technology of the instrument. They will demonstrate basic positions, tone production and fingerings, and will count, read, and perform the intermediate level of music being studied.

BAND GRADE 8
Course Number: MU8100, MU8110
Prerequisites: Band Grade 6 and/or 7 or with instructor approval
Grade Level: 8
Students will continue instruction on a band instrument of their choice. Students will demonstrate proper care of the instrument and will be familiar with the technology of the instrument. They will demonstrate basic positions, tone production and fingerings, and will count, read, and perform the advanced level of music being studied.

ORCHESTRA GRADE 6
Course Number: MU6210
Prerequisites: None
Grade Level: 6
Students will begin instruction on a string instrument. Students will demonstrate proper care of the instrument and will be familiar with the technology of the instrument. They will demonstrate basic positions, tone production and fingerings, and will count, read, and perform the beginning level of music being studied.

ORCHESTRA GRADE 7
Course Number: MU7210, MU7220
Prerequisites: None
Grade Level: 7
Students may begin or continue instruction on a string instrument. Students will demonstrate proper care of the instrument and will be familiar with the technology of the instrument. They will demonstrate basic positions, tone production and fingerings, and will count, read, and perform the intermediate level of music being studied.

ORCHESTRA GRADE 8
Course Number: MU8220, MU8230
Prerequisites: Orchestra Grade 6 and/or 7, or with instructor approval
Grade Level: 8
Students will continue instruction on a string instrument of their choice. Students will demonstrate proper care of the instrument and will be familiar with the technology of the instrument. They will demonstrate basic positions, tone production and fingerings, and will count, read, and perform the advanced level of music being studied.
GENERAL MUSIC GRADE 6
Course Number: MU6300
Prerequisites: None
Grade Level: 6
General Music Grade 6 is a basic music appreciation course. Students develop an appreciation of music and of music skills through singing, playing instruments, moving and listening.

GENERAL MUSIC GRADE 7
Course Number: MU7300
Prerequisites: None
Grade Level: 7
General Music Grade 7 is a basic music appreciation course. Students develop an appreciation of music and of music skills through singing, playing instruments, moving and listening.

GENERAL MUSIC GRADE 8
Course Number: MU8300
Prerequisites: None
Grade Level: 8
General Music Grade 8 is a music appreciation course. Students develop an appreciation of music and of music skills through singing, playing instruments, moving and listening. Students will explore the creative and expressive aspects of music through composing and arranging.

MUSIC TECHNOLOGY
Course Number: MU4400
Prerequisites: None
Grade Level: 9-12
Credit: ½ credit per semester
OFFERED ONLY AT WOODSIDE HIGH SCHOOL
Students will learn sound engineering through Music Technology using computers and sound reinforcement equipment, including mastering the beginning level of Garage Band and sound reinforcement equipment to run sound for and record Woodside events.

MIXED CHORUS
Course Number: MU0100
Prerequisites: None
Grade Level: 9-12
Credit: ½ credit per semester
This course is the high school entry-level course to the vocal music program. Emphasis is placed on developing good vocal tone quality, introduction to reading musical scores, discriminative listening and the study of good choral literature. Students are required to participate in in-school and evening performances as part of the course. In addition, students may be required to audition for district and state music ensembles when appropriate.

TREBLE CHORUS: TENOR, BARITONE & BASS CHORUS
Course Number: MU0200, MU0300
Prerequisites: Successful completion of middle school chorus or music teacher recommendation
Grade Level: 9-12
Credit: ½ credit per semester
Chorus instruction stresses the expression of music through the art of singing. The classes include vocal training, instruction in reading vocal music and the study and use of a broad range of music literature. Activities include public performances that will be required as part of each course. In addition, students must audition for district and state music ensembles when appropriate.
A CAPPELLA CHOIR
Course Number: MU0450
Prerequisites: Successful completion of Mixed Chorus or music teacher recommendation
(and audition required)
Grade Level: 10-12
Credit: ½ credit per semester (0.5 weighted credit)
A Cappella Choir is a select choir which stresses the expression of music through the art of singing in a large ensemble. Emphasis is placed on the development of tone quality in the voice, blend and balance, sight-reading proficiency, ear training, expansion of range, proper vocal production and the ability maintain three and four part music. Rehearsals and performances outside the regular school day will be scheduled and will be required. Students must participate in formal concerts, audition for district and state ensembles when appropriate, and participate in choral assessment performing level III-V music.

SHOW CHOIR
Course Number: MU0550
Prerequisites: Successful completion of Treble Chorus or A Cappella Choir, audition or choral teacher recommendation
Grade Level: 11, 12
Credit: ½ credit per semester (+0.5 weighted credit)
This course emphasizes musical communication through the use of voice and dance in a large ensemble. Emphasis is placed on vocal tone, blend and balance, the ability to maintain three and four part music while performing choreographed movement. Students will perform custom arranged contemporary music as well as choral literature graded III-VI. Rehearsals and performances outside the regular school day will be scheduled and will be required to fulfill the requirements of the course. Students are required to participate in formal concerts, audition for district and state ensembles when appropriate, and participate in competitions when available.

HONORS VOCAL ENSEMBLE
Course Number: MU0650
Prerequisites: Successful completion of Treble Chorus, A Cappella Choir, audition or choral teacher recommendation
Grade Level: 11, 12
Credit: ½ credit per semester (+0.5 weighted credit)
Vocal Ensemble emphasizes musical communications through the use of the voice, individually and in small ensembles. Instruction includes ear training and sight singing in addition to advanced vocal techniques to include interpretation of the vocal score. Rehearsals and performances outside the regular school day will be scheduled and will be required. Students must participate in formal concerts, audition for district and state ensembles when appropriate, and participate in choral assessment performing level IV-VI music. Students will be required to create choral compositions based on learned music theory. In addition, students will develop a portfolio of their best work to include demonstration of different genres of music performance.

INTERMEDIATE BAND: INTERMEDIATE WOODWIND, BRASS, & PERCUSSION
Course Number: MU1100, MU1110, MU1120, MU1130
Prerequisites: Successful completion of two years of middle school band or completion of a high school band class and teacher recommendation.
Grade Level: 9-12
Credit: ½ credit per semester
An active band program is available to high school students who wish to develop proficiency on an instrument through class instruction and performance in the school band. Students will develop artistic proficiency through performance of instrumental works at a minimum VBODA grade III that demand solo quality tone and sensitive interpretation with attention to the intricacies of their instrument. Rehearsals are considered as a lab to instructional periods and are scheduled each week during school and for a minimum of 2 weeks in August. The instructional and rehearsal sessions culminate in performances, including concert and marching activities, which are required to fulfill the requirements of the course. Students are required to audition for city, district, and state event ensembles when appropriate.
ADVANCED BAND: ADVANCED WOODWIND, BRASS, & PERCUSSION
Course Number: MU1250
Prerequisites: Successful completion of high school intermediate level or director recommendation.
Grade Level: 9-12
Credit: ½ credit per semester (+0.5 weighted credit)
Students will continue instruction on the instrument of their choice focusing on solo quality tone, intonation and technique. Student will develop artistic proficiency through performance of instrumental works at a minimum VBODA grade IV. Rehearsals are considered as a lab to instructional periods and are scheduled each week during school and for a minimum of two weeks in August. The instructional and rehearsal sessions culminate in performances, including concert and marching activities, which are required to fulfill the requirements of the course. Students are required to audition for city, district, and state ensembles.

HONORS SYMPHONIC BAND
Course Number: MU1350
Prerequisites: Successful completion of high school advanced band class and band director recommendation
Grade Level: 10-12
Credit: ½ credit per semester (+0.5 weighted credit)
Symphonic Band is the most advanced class in instrumental music artistry. Advanced music literature, VBODA grade V and VI will be studied through performance in a symphonic wind and percussion ensemble of a professional caliber. Rehearsals are considered as a lab to instructional periods and are scheduled each week during the school and for a minimum of two weeks in August. Activities include concert and marching band, to include public performances that are required to fulfill the requirements of the course. In addition, students must audition for city, district, and state ensembles.

HONORS JAZZ ENSEMBLE
Course Number: MU1450
Prerequisites: Successful completion of high school intermediate woodwind, brass or percussion classes, or equivalent band course, or director recommendation.
Grade Level: 10-12
Credit: ½ credit per semester (+0.5 weighted credit)
Jazz Ensemble is a course for advanced students interested in a thorough study and performance of modern contemporary music. Rehearsals and performances outside the regular school day will be scheduled and will be required to fulfill the requirements for the course. In addition, students must audition for district and state music ensembles when appropriate. Advanced music literature comparable to VBODA IV-VI will be studied through performance.

INTERMEDIATE ORCHESTRA
Course Number: MU2100
Prerequisites: Successful completion of previous orchestra class or orchestra teacher recommendation
Grade Level: 9-12
Credit: ½ credit per semester
The orchestra program is designed to help the student develop the knowledge, skills and techniques necessary to express him/herself musically through the medium of a string instrument of the orchestra. Members of the class are expected to perform in the orchestra as a soloist and as a member of small or large ensembles. At least one after-school rehearsal is scheduled each week as a laboratory for the instructional periods. The instructional and rehearsal sessions culminate in concert performances that are required to fulfill the requirements of the course. Minimal performance level expected is VBODA grade III & IV. Students are expected to audition for city and regional events. Study will include music theory and history as appropriate for grade III literature. Students will be required to take a written and performance exam at the end of the semester.
ADVANCED ORCHESTRA
Course Number: MU2250
Prerequisites: Intermediate Orchestra or teacher recommendation
Grade Level: 10-12
Credit: ½ credit per semester (+0.5 weighted credit)
Members of the advanced class are expected to perform in the orchestra as a soloist and as a member of small or large ensembles. At least one after-school rehearsal is scheduled each week as a laboratory for the instructional periods. Instructional and rehearsal sessions culminate in concert performances that are required to fulfill the requirements of the course. Minimal performance level expected is VBODA grade V & VI. In addition, students must audition for city, regional, district and state events when eligible. Study will include music theory and history as appropriate for grade V & VI orchestra literature. Students will be required to take a written and performance exam at the end of the semester and are expected to develop a portfolio of performance material.

BEGINNING & INTERMEDIATE GUITAR
Course Number: MU3000, MU3100
Prerequisites: Provision of personal instrument requested
Grade Level: 9-12
Credit: ½ credit per semester
The guitar program teaches the fundamentals of music, note reading, and music theory, which are used as the basis of study while finger dexterity is being developed. The more advanced students extend their ability to read music for the guitar in a variety of musical styles. Various picking and strumming styles are developed in addition to different tunings, more difficult chords, and solo guitar selections. Rehearsals and performances outside the regular school day will be scheduled and will be required to fulfill requirements for the course. Beginning Guitar will perform Grade I-III level arrangements. Intermediate level requirement includes Grade II-V arrangements.

ADVANCED GUITAR
Course: MU3250
Prerequisites: Completion of Intermediate or Guitar Teacher recommendation
Grade Level: 10-12
Credit: ½ credit per semester (+0.5 weighted credit)
Advanced students will continue developing prior competencies in musicianship to demonstrate advanced proficiency. Rehearsals and performances outside the regular school day will be scheduled and will be required to fulfill the requirements for the course. Students will be required to perform chamber and solo music as well as personal compositions. Advanced level musical selections range from Grade V-VI level arrangements.

MUSIC THEORY
Course Number: MU4100
Prerequisites: None
Grade Level: 9-12
Credit: ½ credit per semester
Music theory includes ear training, basic theory, and principles of musicianship and harmony in addition to basic keyboard skills. There are exercises in writing simple rhythmic, melodic and chord progressions and in acquiring proficiency on an instrument of the student’s choice. In addition, students will be required to develop a portfolio of “best work” across all content areas.
AP MUSIC THEORY  
Course Number: MU4200  
Prerequisites: Music Theory I or teacher recommendation  
Grade Level: 10-12  
Credit: ½ credit per semester (+1.0 weighted credit)  

AP Music Theory continues to emphasize ear training and principles of harmony. Students are expected to write and harmonize melodies in major and minor keys. Musical form is studied through the analysis of music scores and composition and the keyboard capability extends to performance of simple four-part harmony. Discriminate listening and aural analysis will be included. In addition, students will be required to develop a portfolio of “best work” across all content areas. Students prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college.

PIANO PERFORMANCE I, II & III  
Course Number: MU5310, MU5320, MU5330  
Prerequisites: Teacher recommendation  
Grade Level: 9-12  
Credit: ½ credit  

PIANO PERFORMANCE III OFFERED ONLY AT WOODSIDE HS  
Piano performance emphasizes accurate keyboard and technical skills, such as scales, arpeggios, and other techniques. This course incorporates concepts of technique, including music theory appropriate to the student. Rehearsals and performances outside of the regular school day will be scheduled and will be required to fulfill requirements of the course. Performance I students will learn and perform Grade I & II arrangements, Performance II students will learn and perform Grade III & IV arrangements, and Performance III students will learn and perform Grade V & VI arrangements.

NEW HORIZONS CAREER & TECHNICAL EDUCATION CENTER  
COURSES  
The New Horizons Career and Technical Education Center is a regional training center, which has two campuses. Students must be 16 years of age to attend the New Horizons Center and must make an application for acceptance. The school division provides transportation to the two campuses.

AUTO COLLISION AND REFINISHING I, II & III  
Course Number: NH5000  
Grade Level: 11, 12  
Credit: 3 credit yearlong course  
OFFERED AT NEW HORIZONS BUTLER FARM CAMPUS ONLY  
Students in this program are preparing for careers in this field through the use of the latest technologies and state of the art equipment. Throughout the program, students gain daily practical experience by working on vehicles. Each student will become familiar with the latest finishes, from single-stage to multi-stage finishes. Selected students may be eligible for work experiences at local repair facilities. Also, ASE certifications will be available through this program. Students who successfully complete Collision and Repair I & II may be invited to return for Collision and Repair III.

AUTOMATION AND MECHANICAL PRODUCTION TECHNOLOGY  
Course Number: NH5189/ NH5199  
Grade Level: 11, 12  
Credit: 3 credit yearlong course  
OFFERED AT NEW HORIZONS BUTLER FARM CAMPUS ONLY  
Automation and Mechanical Production Technology is a one year program that provides and overview and orientation to careers in various fields of manufacturing. Students will repair and maintain commercial or industrial equipment in buildings and program robots used in assembly and manufacturing systems.
AUTOMOTIVE TECHNOLOGY I, II
Course Number: NH5020, NH5030
Grade Level: 11, 12
Credit: 3 credit yearlong course
**OFFERED AT NEW HORIZONS BUTLER FARM CAMPUS ONLY**
Auto Technology is a two-year program that prepares students to become entry-level auto technicians. Both years of the program are dual enrolled with Thomas Nelson Community College. Automotive manufacturers and local dealerships sponsor the Automotive Youth Education System at New Horizons. This program offers employment opportunities with dealerships for students who qualify and are selected during the spring semester of their first year. It also ensures that students have ASE master certified instructors, latest service equipment and current model cars so they receive top-quality instruction using the latest technology. Students who are selected for Summer Mentorship opportunities receive hands-on training in service departments of sponsoring dealers under the supervision of experienced technicians.

COMPUTER NETWORKING / CYBERSECURITY
Course Number: NH5529/NH5539
Grade Level: 11, 12
Credit: 3 credit yearlong course
**OFFERED AT NEW HORIZONS WOODSIDE LANE CAMPUS ONLY**
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 Thomas Nelson Community College.

COMPUTER PROGRAMMING I AND ADVANCED COMPUTER PROGRAMMING
Course Number: NH5549/NH5559
Grade Level: 11, 12
Credit: 3 credit yearlong course
**OFFERED AT NEW HORIZONS WOODSIDE LANE CAMPUS ONLY**
This industry designed course will allow students to focus on computer science and apply key programming concepts, algorithmic procedures, programming languages, and web based applications. In the Advanced Programming course, students will use object-oriented programming to design and develop database and multimedia programs and applications. The class is dual enrolled for 6 college credits at Thomas Nelson Community College.

CONSTRUCTION I, II
Course Number: NH5229/NH5239
Grade Level: 11, 12
Credit: 3 credit yearlong course
**OFFERED AT NEW HORIZONS WOODSIDE LANE CAMPUS ONLY**
This is a one-year program that trains our future builders. Students develop the skills necessary for employment in the construction field. Throughout the program, students gain skills daily through practical experiences using hand and power tools. Students also participate in several building projects, and have partnerships with NASA and York/Poquoson Master Gardeners. Students who successfully complete Construction I & II may be invited to return for Construction III (#8603).

COSMETOLOGY I, II
Course Number: NH5080, NH5090
Grade Level: 11, 12
Credit: 3 credit yearlong course
**OFFERED AT BOTH NEW HORIZONS CAMPUSES**
Upon successful completion of this two-year program, students are expected to take the Commonwealth of Virginia State Cosmetology or Barbering examination in order to become licensed practitioners. Students gain daily practical experiences working on other students and during their second year have the opportunity to provide services to patrons in a clinical setting. Cosmetology/Barbering students can also earn SOL credit for use toward the elective credit upon successfully passing the NOCTI Credentialing Exam and/or the State Licensing exam.
CRIMINAL JUSTICE
Course Number: NH5269, NH5279
Grade Level: 11, 12
Credit: 3 credit yearlong course
OFFERED AT BOTH NEW HORIZONS CAMPUSES
Students in this one-year program are preparing for many of the exciting, challenging and rewarding careers in the criminal justice field. These opportunities require people who want to operate in both high energy and high-tech fluid environments filled with constant challenges and service commitments. Students will study the history of and types of law enforcement requirements as they gain an understanding of local, state and federal law enforcement departments and jurisdictions. Students will learn about and use some of the newest technology in the criminal justice field as they undertake and engage in crime scene investigations. Some of the finest local state, federal and private sector industry professionals provide classroom presentations and hands on training opportunities. Students will also learn about the court system and corrections.

CULINARY ARTS I, II
Course Number: NH5100, NH5110
Grade Level: 11, 12
Credit: 3 credit yearlong course
OFFERED AT NEW HORIZONS WOODSIDE LANE CAMPUS ONLY
Culinary Arts is a two-year program that prepares students to enter employment in food service occupations. Instruction focuses on sanitation, nutrition, food preparation, purchasing, and inventory control in addition to food presentation and service. Students plan menus, prepare food and use a variety of kitchen equipment such as ovens, grills, broilers, slicers, grinders, and blenders.

CYBERSECURITY SYSTEMS TECHNOLOGY I, II
Course Number: NH5169, NH5179
Grade Level: 11, 12
Credit: 3 credit yearlong course
OFFERED AT NEW HORIZONS BUTLER FARM CAMPUS ONLY
Cybersecurity Systems Technology is a one year program where students enter the world of computer technology and gain practical experience in assembling a computer system. Students will install, configure, and secure various operating systems and troubleshoot computers using system tools and diagnostic software. Students will gain a basic understanding of emerging technologies including unified communications, mobile, cloud, and virtualization technologies and explore basic network design and connectivity, network documentation, network limitations and weaknesses, and network security, standards, and protocols. This course prepares students for postsecondary education and training in a successful career in information technology.

DENTAL CAREERS I, II
Course Number: NH5120, NH5130
Grade Level: 11, 12
Credit: 3 credit yearlong course
OFFERED AT NEW HORIZONS BUTLER FARM CAMPUS ONLY
This two-year program prepares students to perform all the tasks of a Dental Assistant. These tasks include exposing, processing and mounting x-rays, preparing materials for various procedures including impressions, removing sutures, placing topical anesthetics and making diagnostic study models for alginate impressions. This program also gives students a foundation to pursue the Dental Hygienist post-secondary degree through a two or four-year college.
EARLY CHILDHOOD EDUCATION I, II
Course Number: NH5069, NH5079
Grade Level: 11, 12
Credit: 3 credit yearlong course
OFFERED AT NEW HORIZONS WOODSIDE LANE CAMPUS ONLY
Students who are interested in working professionally with young children (e.g., medical, social services, and education) may enroll in the Early Childhood Education (ECE) one-year program. Critical thinking, practical problem solving, and entrepreneurship opportunities within the field of early childhood education are emphasized. Practical experiences (ex: on-site lab, local daycare centers, elementary schools, other institutions) under the supervision of the instructor are required.

ELECTRICITY AND RENEWABLE ENERGY
Course Number: NH5289/NH5299
Prerequisites:
Grade Level: 11, 12
Credit: 3 credit yearlong course
OFFERED AT NEW HORIZONS WOODSIDE LANE CAMPUS ONLY
Electricity and Renewable Energy is a 1-year program that teaches the basic concepts used by electricians to install, maintain and repair wiring, equipment and fixtures, and navigation of the National Electrical Code Book. 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.

EMERGENCY MEDICAL TECHNICIAN
Course Number: NH5309/ NH5319
Grade Level: 11, 12
Credit: 3 credit yearlong course
OFFERED AT NEW HORIZONS BUTLER FARM CAMPUS ONLY
Emergency Medical Technicians are part of one of the three public safety divisions (EMS, Fire & Law Enforcement). Their job includes the daily routine of dealing with crisis, trauma, hazardous materials, illness, injuries and the training to handle mass causality situations, disaster management and terrorism awareness. The work they do often means the difference between life and death. Although the job can be stressful, EMT’s and Paramedics enjoy the challenge and excitement of their jobs and view them as an opportunity to make a real difference. This one-year program meets the sequential elective requirement. Juniors who successfully complete EMT may be invited to return as a senior for EMT II. There are a very limited number of EMT II seats.

FIRE FIGHTER
Course Number: NH5329/ NH5339
Grade Level: 11, 12
Credit: 3 credit yearlong course
OFFERED AT NEW HORIZONS BUTLER FARM CAMPUS ONLY
Firefighters are one of the three public safety divisions (EMS, Fire & Law Enforcement). The one-year Fire Fighter program introduces students to the exciting career field of Fire Fighting. This would also require the successful completion of EMT-B (see page 25). This course meets the sequential elective requirement. This new program includes the opportunity to earn both the Fire Fighter I and II certifications through the Virginia Department of Fire Programs. Due to this, students will be required to attend some training after school and on some weekends. Attendance at these sessions is mandatory for those pursuing the fire fighter certification.
HVAC I, II
Course Number: NH5349/NH5359
Grade Level: 11, 12
Credit: 3 credit yearlong course
OFFERED AT NEW HORIZONS WOODSIDE LANE CAMPUS ONLY
In this one-year program, students are taught the skills necessary for employment in the areas of heating and related climate control systems. Throughout the program, students gain daily practical experience in all aspects of air conditioning and also have the opportunity to receive refrigeration certification.

MECHATRONICS
Course Number: NH5460/NH5470/NH5480
Grade Level: 11, 12
Credit: 3 credit yearlong course
OFFERED AT NEW HORIZONS BUTLER FARM CAMPUS ONLY
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.

MEDICAL ASSISTANT
Course Number: NH5369/NH5379
Grade Level: 11, 12
Credit: 3 credit yearlong course
OFFERED AT NEW HORIZONS BUTLER FARM CAMPUS ONLY
This 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 aspect includes: insurance reporting, office accounting, processing 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. Medical Assistant is a one-year program but, it still meets the sequential elective requirement.

NURSING AIDE
Course Number: NH5389/NH5399
Grade Level: 11, 12
Credit: 3 credit yearlong course
OFFERED AT NEW HORIZONS BUTLER FARM CAMPUS ONLY
This course prepares students for employment as a Nurse’s Aide/Home Health Aide, and/or for entry into a practical nursing program as well as other health occupations. Students will receive clinical training in a local nursing home. This is a one-year program. Upon successful completion of the program, students meeting the standard established by the State Board of Nursing and New Horizons are eligible to take the National Nurse Aide Assessment Program examination to become a Certified Nurse Aide in Virginia.

PHARMACY TECHNICIAN
Course Number: NH5409/NH5419
Grade Level: 11, 12
Credit: 3 credit yearlong course
OFFERED AT NEW HORIZONS WOODSIDE LANE CAMPUS ONLY
With our average population increasing in age, prescription medications are rapidly growing in their importance in the health-care industry. Those in the industry on the Virginia Peninsula have identified Pharmacy Technician as their number one area of employment need. In the next several years, job growth for pharmacy technicians will be twice the average for all occupations in Virginia. The New Horizons program will provide students an in-depth exposure to the pharmaceutical industry. It will assist students in becoming skilled in preparing/dispensing prescriptions, compounding medications, preparing intravenous medications, stocking medications and repackaging medications. The Pharmacy Technician Program is a one-year (two-semester class) course. Students will be prepared to take the Virginia Pharmacy technician Exam and be fully licensed within Virginia.
PHYSICAL/OCCUPATIONAL THERAPY

Course Number: NH5449/NH5459
Grade Level: 11, 12
Credit: 3 credit yearlong course
OFFERED AT NEW HORIZONS BUTLER FARM CAMPUS ONLY

Physical/Occupational Therapy is a one year program designed to provide an introduction to the professions of physical and occupational therapy. Students explore the principles and practices of therapists in the health care industry and participate in clinical observation under the direct supervision of a licensed physical and/or occupational therapist. Clinical skills in the area of physical therapy and occupational therapy enable student to gain understanding of rehabilitative care, which is practices throughout the continuum of care and across the life span of individuals. After successful completion of this course, student may seek higher education for specific degrees/licensure in a variety of fields such as physical therapy, occupational therapy, speech therapy, sports medicine, athletic training, chiropractic medicine, biology, or exercise science.

PRECISION MACHINING

Course Number:
Grade Level: 11, 12
Credit: 3 credit yearlong course
OFFERED AT NEW HORIZONS BUTLER FARM CAMPUS ONLY

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

VETERINARY SCIENCE

Course Number: NH5429/NH5439
Grade Level: 11, 12
Credit: 3 credit yearlong course
OFFERED AT NEW HORIZONS WOODSIDE LANE CAMPUS ONLY

Students in Veterinary Science learn how to respect, 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. This one-year program meets the sequential elective requirement.

WELDING I, II

Course Number: NH5160, NH5170
Grade Level: 11, 12
Credit: 3 credit yearlong course
OFFERED AT BOTH NEW HORIZONS CAMPUSES (WOODSIDE LANE- LEVEL II ONLY)

This is a two-year program in which students receive training along the lines of Huntington Ingalls Industries Newport News Shipbuilding and Liebherr Mining Equipment welding schools. Students learn to set up welding equipment and do minor repairs, participate in building a variety of projects, network with people in the welding field and compete in district and state welding competitions.
**6TH GRADE SCIENCE**

*Course Number: SC6000*

*Prerequisites: None*

**Grade Level: 6**

Sixth Grade Science focuses on the study of force, energy, and matter: the role of the sun’s energy on the Earth’s systems, water in the environment, air and atmosphere, and basic chemistry concepts. Students will also explore the solar system and natural resource management.

**INTRODUCTION TO SCIENTIFIC INVESTIGATION AND STEM**

*Course Number: SC6500*

*Prerequisites: None*

**Grade Level: 6**

*OFFERED ONLY AT CRITTENDEN MIDDLE SCHOOL*

Course is designed to introduce students to the scientific investigation process and help them to develop the necessary STEM and science investigation skills to successfully complete an independent science project.

**7TH GRADE LIFE SCIENCE**

*Course Number: SC7000*

*Prerequisites: None*

**Grade Level: 7**

Seventh Grade Life Science focuses on exploration of cellular organization and classification of organisms, the importance of basic physical and chemical processes of photosynthesis and its importance to life, the relationships among members of an ecosystem, and genetics.

**8TH GRADE PHYSICAL SCIENCE**

*Course Number: SC8000*

*Prerequisites: None*

**Grade Level: 8**

Eighth Grade Science focuses on understanding of the nature and structure of matter and the characteristics of energy. Major areas explored are physical and chemical changes, the periodic table, reactions, temperature and heat; sound; light; electricity and magnetism; and work, force, and motion.

**EARTH SCIENCE I**

*Course Number: SC1100, SC1200*

*Prerequisites: None*

**Grade Level: 9-12**

*Credit: ½ credit per semester (+0.5 weighted credit for Honors)*

Earth Science is a study of the features and forces of the earth and its place in the solar system and the universe. This course introduces students to such topics as geology, oceanography, meteorology, and astronomy. An accelerated course, Honors Earth Science is also available. All students take the SOL test for Earth Science and must pass it to earn a verified credit toward graduation.
ENVIRONMENTAL SCIENCE
Course Number: SC1330
Prerequisites: None
Grade level: 9
Credit: ½ credit per semester
Environmental Science is designed for students to have the opportunity to increase their environmental literacy and graduate with the knowledge and skills to act responsibly to protect and restore their environment. The goal of this course is to provide students with the skills and content necessary for them to look at current and future environmental issues, both natural and man-made, through a critical lens and to provide a platform to make informed decisions. The course will focus on earth science for one semester and biology one semester and link the concepts of the two disciplines. This course counts as an earth science elective but not a verified credit.

BIOLOGY I
Course Number: SC2100, SC2200
Grade Level: 9-12
Credit: ½ credit per semester (+0.5 weighted credit for Honors)
Biology provides a meaningful view of the whole living world and its interrelationships. Topics such as taxonomy, morphology, physiology, molecular biology, biochemistry, genetics, ecology and animal behavior are covered. This course will include dissections of various animals. In the Honors level of the course, environmental education will be emphasized. The students will be required to plan, develop, and complete an experimental science project and report the results in oral and written form. All students take the SOL test for Biology and must pass it to earn a verified credit toward graduation.

EARTH SCIENCE II – ASTRONOMY
Course Number: SC2339
Prerequisites: Earth Science I and Algebra I
Grade Level: 11-12
Credit: ½ credit
Earth Science II provides an understanding of the components of the universe and their interactions focusing more specifically on the solar system. This is a one semester course.

EARTH SCIENCE II – OCEANOGRAPHY
Course Number: SC 2349
Prerequisites: Earth Science I
Grade Level: 11-12
Credit: ½ credit
Oceanography is a semester course that involves the study of the historical, physical and chemical aspects of the oceans. The course will use the Chesapeake Bay region for an intense study of the coastal ocean. This is a paired semester class and students may enter second semester. Either semester may be paired with any other Science II semester course as scheduling permits. This is a one semester course.

BIOLOGY II – FORENSICS
Course Number: SC 2319
Prerequisites: Biology I
Grade Level: 11-12
Credit: ½ credit
Biology II – Forensics is a semester course that combines the concepts of biology and chemistry to explore scientific applications of solving crimes in a comprehensive approach. Students will perform numerous laboratories that will focus on making the connections between science and technology and the impact these two disciplines have on the study of forensic science. Students will use multiple pathways of scientific reasoning to explore the analysis of a crime scene, fingerprints, hair, trace evidence, blood, DNA and case studies. This is a one semester course.
BIOLOGY II – GENETICS
Course Number: SC2359
Prerequisites: Biology
Grade Level: 11-12
Credit: ½ credit

Biology II - Genetics includes a study of the continuity of life and heredity, cell chemistry, Mendelian laws of heredity, probability, sex-inheritance, selection, chromosomal aberrations, mutations, cytoplasmic inheritance, bacterial and viral genetics, eugenics, genes in populations and genetics of species formation.

BIOLOGY II – MARINE BIOLOGY
Course Number: SC2369
Prerequisites: Biology I
Grade Level: 11-12
Credit: ½ credit

Marine Biology is a semester course that involves the study of the oceans and life processes within and around it, and includes the study of plants and animals in the ocean, ecology, and the impact of humans on the ocean. This course will also include dissections of various preserved ocean animals. This is a paired semester class and students may enter second semester. Either semester may be paired with any other Biology II semester course as scheduling permits. This is a one semester course.

BIOLOGY II – ZOOLOGY
Course Number: SC2379
Prerequisites: Biology I
Grade Level: 11-12
Credit: ½ credit

Zoology is a semester course that provides the student with a survey of invertebrate and vertebrate animals. Zoology students will delve into the diversity of life by studying characteristics, taxonomic relationships, life processes, survival mechanisms, and economic importance among the organisms. This course will include dissections of various animals. This is a paired semester class and students may enter second semester. Either semester may be paired with any other Biology II semester course as scheduling permits. This is a one semester course.

BIOLOGY II – ECOLOGY
Course Number: SC2389
Prerequisites: Biology I
Grade Level: 11-12
Credit: ½ credit

Ecology is a semester course that includes studies of the relationship between organisms and the environment, including physical and biological conditions. The course will include experimental studies in the laboratory and the field and data analysis. This is a paired semester class and students may enter second semester. Either semester may be paired with any other Biology II semester course as scheduling permits. This is a one semester course.

BIOLOGY II – FIELD BIOLOGY
Course Number: SC2399
Prerequisites: Biology I
Grade Level: 11-12
Credit: ½ credit

OFFERED ONLY AT POINT OPTION
This is an alternative to the typical science course in the classroom setting. It allows the use of “Discovery Science” which describes natural structures of processes as accurately as possible through careful observation and data collection. Student interest and participation is far above that of a typical classroom setting. The students arrive at class eager to go out and discover something new, and then follow that up with further research when they get back to class to answer all of their questions. As one of our biology textbooks expresses it, “Science is a quest to understand nature.” Being outdoors brings that quest to life. Seeing the interactions firsthand brings excitement into learning. This is a one semester course.
BIOLOGY II – MOLECULAR AND CELL BIOLOGY
Course Number: SC2419
Prerequisites: Biology I and Chemistry
Grade Level: 10-12
Credit: ½ credit
The semester-long elective course provides an in depth study of the molecular basis of cellular processes and the interrelationships in living systems through inquiry based experimentation and modeling. Students will cover topics including: biochemistry, cell structure and functions, cell membrane structure and transport across the membrane, cellular communication, energetics, molecular genetics, cell organization and movement, and cell cycle. Students will be taught the content, lab techniques and critical thinking skills to be successful in an introductory college biology course. This is a one semester course.

BIOLOGY II - RESEARCH & APPLICATION METHODS FOR CELLULAR PROCESSES
Course Number: SC2429
Prerequisites: Biology I and Chemistry
Grade Level: 10-12
Credit: ½ credit
The semester-long elective course focuses on research design, applied math and statistics culminating in a student capstone research project with a molecular cell emphasis. Students develop research skills including science based literature research, developing a research proposal, experimentation, data analysis, scientific writing and oral presentation skills. This is a one semester course.

HONORS BIOLOGY II – ANATOMY & PHYSIOLOGY
Course Number: SC2390
Prerequisites: Biology I
Prerequisite or Co-requisite: Chemistry I
Grade Level: 11-12
Credit: ½ credit per semester (+0.5 weighted credit)
Anatomy and Physiology is a study of the structure and function of the human body. The course is preparation for advanced biological studies, biomedical nursing, and other science-based careers. Laboratory experiences provide student learning in the following topics: the major body systems; how the body systems work together to provide homeostasis; body functions in the healthy and diseased states; blood typing; muscle action; nerve functioning; and bioethics. Dissections of various preserved animals and organs are an integral part of this course.

AP BIOLOGY
Course Number: SC2300
Prerequisites: Successful completion of Biology
Grade Level: 11-12
Credit: 1 credit per semester (+1.0 weighted credit)
Advanced Placement Biology students will closely follow the program suggested by the College Board. This course emphasizes the principal topics covered in Biology I, however, it is taught at a more intensive level of rigor. Laboratory work is an integral part of the course. Students prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college.

HONORS CHEMISTRY
Course Number: SC3200
Prerequisites: Algebra I
Grade Level: 10-12
Credit: ½ credit per semester (+0.5 weighted credit)
Honors Chemistry I is a course that explains the basic atomic and molecular processes. Other areas of study include the structure of matter and periodicity of elements, behavior of matter in terms of chemical equilibrium, oxidation-reduction and acid base theory. Honors Chemistry is offered with Algebra/Trig or Algebra II as a co-requisite. All students take the SOL test for Chemistry and must pass it to earn a verified credit toward graduation.
AP CHEMISTRY
Course Number: SC3300
Prerequisites: Chemistry and Algebra
Grade Level: 11-12
Credit: 1 credit per semester (+1.0 weighted credit)
Advanced Placement Chemistry students will closely follow the program suggested by the College Board. Students will attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. Laboratory work will be required at least fifty percent of the time. Students prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college.

AP ENVIRONMENTAL SCIENCE
Course Number: SC1300
Grade Level: 9-12
Credit: ½ credit per semester (+1.0 weighted credit)
Advanced Placement Environmental Science students will closely follow the program suggested by the College Board. Students will study scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, identify and analyze environmental problems both natural and human-made, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving and/or preventing them. The course is taught at an intensive level of rigor. Students prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college.

GENERAL PHYSICS I
Course Number: SC4150
Prerequisites: Geometry
Grade Level: 10-12
Credit: ½ credit per semester
General Physics I is a two-semester course designed for students who have successfully completed Geometry and are interested in Physics but are not ready for the math requirement of Honors Physics. Students will develop a conceptual understanding of physical principles and how physics plays a role in their everyday lives. Topics covered will include kinematics, dynamics, energy, waves, geometric optics, electricity and magnetism.

HONORS PHYSICS
Course Number: SC4200
Prerequisites: Completion of or current enrollment in Trigonometry or Algebra II/Trigonometry
Grade Level: 10-12
Credit: ½ credit per semester (+0.5 weighted credit)
Honors physics includes a discussion of mechanics, kinetic molecular theory, heat, wave motion, sound, light, electrical and magnetism, and atomic and nuclear physics.

AP PHYSICS I
Course Number: SC4310
Prerequisites: No prior coursework in physics is necessary. Completion of geometry and be concurrently taking Algebra II or an equivalent course.
Grade Level: 9-12
Credit: ½ credit per semester (+1.0 weighted credit)
Advanced Placement Physics students closely follow the program suggested by the College Board. The curriculum is challenging, but broad in nature. The course is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power, and mechanical waves and sound. It will also introduce electric circuits. Students prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college.
AP PHYSICS II
Course Number: SC4320
Prerequisites: Completed AP Physics I or a comparable introductory course in physics
Grade Level: 10-12
Credit: ½ credit per semester (+1.0 weighted credit)

Advanced Placement Physics students closely follow the program suggested by the College Board. The curriculum is challenging, but broad in nature. The course is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics. Students prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college.

SOCIAL STUDIES COURSES

UNITED STATES HISTORY TO 1865
Course Number: SS6000
Prerequisites: None
Grade Level: 6

Students will use skills for historical and geographical analysis to explore the early history of the United States and understand ideas and events that strengthened the union. The standards for this course relate to the history of the United States from pre-Columbian times until 1865. Students will continue to learn fundamental concepts in civics, economics, and geography as they study United States history in chronological sequence and learn about change and continuity in our history. They also will study documents and speeches that laid the foundation for American ideals and institutions and will examine the everyday life of people at different times in the country’s history through the use of primary and secondary sources. The study of history must emphasize the intellectual skills required for responsible citizenship. Students will practice these skills as they extend their understanding of the essential knowledge defined by all of the standards for history and social science.

UNITED STATES HISTORY: 1865 TO THE PRESENT
Course Number: SS7000
Prerequisites: None
Grade Level: 7

Students will use skills for historical and geographical analysis to explore American history since 1865. The standards for this course relate to the history of the United States from the Reconstruction era to the present. Students should continue to develop and build upon the fundamental concepts and skills in civics, economics, and geography within the context of United States history. Students will use investigation as a foundation to delve into the political, economic, and social challenges facing the nation once reunited after the Civil War. This foundation provides a pathway to develop an understanding of how the American experience shaped the world’s political and economic landscapes. The study of history must emphasize the historical thinking skills required for geographic analysis, economic decision making, and responsible citizenship. Students will apply these skills as they extend their understanding of the essential knowledge defined by all of the standards for history and social science.
CIVICS & ECONOMICS  
Course Number: SS8000  
Prerequisites: None  
Grade Level: 8  
This course focuses on the roles citizens play in the political, governmental and economic systems of the U.S. Students examine the constitutions of Virginia and the U.S.; identify the rights, duties, and responsibilities of citizens; and describe the structure and operation of government at the local, state, and national levels. Students investigate the process by which decisions are made in the American market economy and explain the government’s role in our economy. They also identify personal character traits such as patriotism, respect for the law, and a sense of civic duty that facilitate thoughtful and effective participation in the civic life of an increasingly diverse democratic society. The course helps students understand politics and government in order to be informed citizens and to participate in the public life of our community, state and nation. It also helps them understand the function of the economy in our society and the world; their role as an employer, worker, producer, or consumer; and their role in the global marketplace. Throughout the course, students practice the intellectual skills required for responsible citizenship. All students take the SOL test for Civics and Economics.

WORLD GEOGRAPHY  
Course Number: SS1100, SS1200  
Prerequisites: None  
Grade Level: 9  
Credit: ½ credit per semester (+0.5 weighted credit for SS1200 only)  
World Geography is the study of the world’s peoples, places, and environments, with a focus on world regions. Particular emphasis is placed on students’ understanding and applying geographic concepts and skills to their daily lives. In the Honors level of the course, students will use geographic resources, inquiry, research, and technology skills to ask and answer geographic questions for a more in-depth study of geography. All students take the SOL test for World Geography and must pass it to earn a verified credit toward graduation.

AP HUMAN GEOGRAPHY  
Course Number: SS1300  
Prerequisites: None  
Grade Level: 9  
Credit: ½ credit per semester (+1.0 weighted credit)  
AP Human Geography is a rigorous Advanced Placement course that focuses on theoretical and practical applications in the field of geographic inquiry. Students will have the opportunity for hands-on, in-depth study of human geography through classroom discussion, cooperative activities, technology activities, cartography, readings, lab work and outside research and fieldwork. All students take the SOL test for World Geography and must pass it to earn a verified credit toward graduation. Students also prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college. The course may be taken in place of World Geography or as an elective credit after taking World Geography.

WORLD HISTORY I  
Course Number: SS2100  
Prerequisites: None  
Grade Level: 10  
Credit: ½ credit per semester  
The focus of this course is the study of the historical development of people, places, and patterns of life from ancient times until 1500 AD. Students will use skills of historical and geographical analysis to explore the early history of the world. All students take the SOL test for World History and Geography to 1500 AD and must pass it to earn a verified credit toward graduation.
HONORS WORLD HISTORY I & II
Course Number: SS2200
Prerequisites: None
Grade Level: 10
Credit: ½ credit per semester (+0.5 weighted credit)
The focus of this course is the study of the historical development of people, places, and patterns of life from ancient times until present day. Students will use skills of historical and geographical analysis to explore the history of the world. The course is taught at an accelerated pace in order to cover the content of both World History I and World History II in one year. All students take the SOL test for World History and Geography to 1500 AD and must pass the test to earn a verified credit toward graduation.

AP WORLD HISTORY
Course Number: SS2300
Prerequisites: None
Grade Level: 10
Credit: ½ credit per semester (+1.0 weighted credit)
At the Advanced Placement level, world history students go beyond a general understanding of world history. They use analytic skills and write extensively on the major themes of history from the foundations of civilization to the present day. Students are given the opportunity to “do history” by using the steps a historian would use in analyzing historical events and evidence worldwide. The study of Africa, the Americas, Asia and Europe offers a balanced coverage of world history. The coursework is rigorous and the course is taught at an accelerated pace in order to cover the content of both World History I and World History II in one year and the AP content specified by College Board. All students take the SOL test for World History and Geography to 1500 AD and the SOL test for World History and Geography 1500 AD to Present and must pass the test to earn a verified credit toward graduation. Students also prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college. The course may be taken in place of Honors World History I and II or as an elective credit after taking World History.

UNITED STATES & VIRGINIA HISTORY
Course Number: SS3100, SS3200
Prerequisites: None
Grade Level: 11
Credit: ½ credit per semester (+0.5 weighed credit for SS3200 only)
The focus of this course is the study of the historical development of American ideas and institutions from the Age of Exploration to the present. Students will learn fundamental concepts in civics, economics and geography. They will obtain a basic knowledge of American culture through a chronological survey of major issues, movements, people and events in United States and Virginia history. In the Honors level course, students go beyond a general understanding of history and use historical and geographical analysis skills to explore events, people and ideas in American history. All students take the SOL test for VA & U.S. History and must pass it to earn a verified credit toward graduation.

AP UNITED STATES HISTORY
Course Number: SS3300
Prerequisites: None
Grade Level: 11
Credit: ½ credit per semester (+1.0 weighted credit)
This is a rigorous Advanced Placement course designed to provide students with the analytic skills and factual knowledge necessary to deal critically with problems in U.S. History. Students will learn how to assess historical materials and to weigh the evidence and interpretations presented in historical scholarship. Students will write extensively to perfect their essay writing and critical thinking skills. All students take the SOL test for Virginia and United States History and must pass it to earn a verified credit toward graduation. Students also prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college. This course will satisfy the U.S. and Virginia History credit requirement for the diploma. Dual enrollment college credit may be offered for this course at some school sites. Check with your counselor for availability.
UNITED STATES & VIRGINIA GOVERNMENT
Course Number: SS4100, SS4200
Prerequisites: None
Grade Level: 12
Credit: ½ credit per semester (+0.5 weighed credit for SS4200 only)
This course will provide students with knowledge of Virginia and United States Government that will enable them to participate effectively in civic life in America. Students will examine fundamental constitutional principles; the organization of government at the federal, state, and local level; the rights and responsibilities of citizenship; the policy-making process; political parties and elections; comparative government and foreign policy; and the American economic system. In the Honors level course, students write and think critically in order to obtain a deeper understanding government and economics.

AP UNITED STATES GOVERNMENT
Course Number: SS4300
Prerequisites: None
Grade Level: 12
Credit: ½ credit per semester (+1.0 weighted credit)
This rigorous Advanced Placement course focuses on the various institutions, groups, beliefs, and ideas that constitute United States politics. Students will gain an analytical perspective on government and politics in the United States both by studying the general concepts used to interpret U.S. politics and by analyzing specific examples. Students will learn how to analyze and interpret basic data relevant to U.S. government and politics and will write extensively to perfect their essay writing and critical thinking skills. Students prepare for and take the College Board's Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college. This course will satisfy the US Government credit requirement for the diploma. Dual enrollment college credit may be offered for this course at some school sites. Check with your counselor for availability.

AP COMPARATIVE GOVERNMENT
Course Number: SS4310
Prerequisites: None
Grade Level: 12
Credit: ½ credit per semester (+1.0 weighted credit)
This is a rigorous Advanced Placement course designed to introduce students to the fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. Students will write extensively to perfect their writing and thinking skills. Students prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college. This is an elective course.

INTRODUCTORY PSYCHOLOGY
Course Number: SS5100
Prerequisites: None
Grade Level: 10-12
Credit: ½ credit per semester
Introductory Psychology is a beginning study of the subject of psychology. Students are introduced to the scientific method and the core ideas and theories of psychology. Students explore and gain an understanding of the complexities and diversity of human thought and behavior. This is an elective course.
AP PSYCHOLOGY
Course Number: SS5300
Prerequisites: None
Grade Level: 11, 12
Credit: ½ credit per semester (+1.0 weighted credit)
This is a rigorous Advanced Placement course designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and animals. Students are exposed to psychological facts, principles and phenomena associated with each of the major subfields of psychology. They also learn about the ethics and methods psychologists use in their science and practice. Students prepare for and take the College Board’s Advanced Placement Test and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college. This is an elective course.

SOCIOLOGY
Course Number: SS5400
Prerequisites: None
Grade Level: 10-12
Credit: ½ credit per semester
Sociology is the study of group behavior and interactions between people. Student engagement is emphasized through the examination of social problems, case studies, role-plays, cooperative learning activities, simulations, debates, online research, and a variety of activities that will help students develop the skills that they will need to become active citizens. Topics include social structure, deviance, race and ethnicity, gender and age, family, religion, and social change. This is an elective course.

HISTORY IN FILM
Course Number: SS3400
Prerequisites: None
Grade Level: 10-12
Credit: ½ credit per semester
This course focuses on selected topics in history using the medium of film. Students will use historical thinking skills and primary source analysis to understand how history impacts the film industry and how the film industry impacts history. This is an elective course.

HONORS INTERNATIONAL RELATIONS
Course Number: SS5729
Prerequisites: None
Grade Level: 10-12
Credit: ½ credit (+0.5 weighted credit)
International Relations includes the study of the nation, state, and international law. Areas studied include Asia, the Middle East, Africa and Latin America. Students also study the history and development of the United Nations, including its structure and problems. This is an elective course. This is a one semester course.

HONORS AMERICAN FOREIGN POLICY
Course Number: SS5629
Prerequisites: None
Grade Level: 10-12
Credit: ½ credit (+0.5 weighted credit)
American Foreign Policy provides students with the opportunity to gain insight into the complexities of American foreign policy, the roles of various groups in formulating policy and the major developments in American foreign policy from the end of World War II to the present. This is an elective course. This is a one semester course.
PRACTICAL LAW
Course Number: SS5630
Prerequisites: None
Grade Level: 9-12
Credit: ½ credit per semester
Practical Law is designed to provide students with a basic knowledge of the law as it applies to citizens of the United States and Virginia. Student engagement is emphasized through the use of problems, case studies, role-plays, cooperative learning activities, simulations, debates, online research, and a variety of activities that will help students develop the knowledge and skills that they will need to make sound decisions and become active and law-abiding citizens in their schools and communities. Topics include criminal law, the legal system, juvenile justice, consumer law, family law, and individual rights and liberties. Students will also study contemporary issues in law related to immigration, intellectual property, terrorism, and the workplace. This is an elective course.

SPECIAL EDUCATION COURSE ELIGIBILITY
The following courses offer elective credit and are weighted equal to modified ability grouped classes in determining student class rank and grade point average. See Grade Point Average and Class Ranking of Secondary Students for further information.

STRATEGIES
Course Number: SP1000
Prerequisites: Geared to students with learning disabilities (LD)
Grade Level: 9-12 (teacher recommendation)
Credit: ½ credit per semester
Strategies is designed to teach students techniques that assist them in organizing and processing information. Students learn alternative strategies for recalling details and main ideas, outlining, taking tests, expressive writing, spelling, vocabulary development and time management. These techniques are applied to all content area material so that success is measured by improved performance in all academic areas. This course is appropriate for students in the resource setting.

PERSONAL LIFE SKILLS
Course Number: SP3000
Prerequisites: Geared to students with an emotional disability (ED)
Grade Level: 9-12
Credit: ½ credit per semester (elective)
Instruction in Personal Life Skills assists the student in developing appropriate behaviors for all educational settings. Specific skills essential for social adjustment and social interaction are stressed. Assistance in problem solving, age appropriate social adjustment and selecting realistic life goals is emphasized.

ENGLISH SUPPORT
Course Number: SP1100
Prerequisites: Geared to students with learning disabilities (LD)
Grade Level: 9-12
Credit: ½ credit per semester (elective)
This course is designed for students who are also enrolled in a general education English class. The class reinforces language arts skills and supports deficit areas experienced in general education.
ENGLISH SKILLS
Course Number: SP2100
Prerequisites: Geared to students with intellectual disabilities (ID)
Grade Level: 9-12
Credit: ½ credit per semester (elective)
This course is designed for students who are not enrolled in a general education English class. The class reinforces language arts skills and supports deficit areas with specialized instruction and a modified curriculum as determined by the Individualized Education Program (IEP).

READING SKILLS
Course Number: SP0100
Prerequisites: Geared to students with intellectual disabilities (ID); placement testing by special education teacher
Grade Level: 9-12
Credit: ½ credit per semester (elective)
Reading skills is a phonetic reading program for students who are non-readers through fourth grade ability. The program emphasizes decoding and comprehension skills.

MATH SKILLS
Course Number: SP2210
Prerequisites: Geared to students with intellectual disabilities (ID)
Grade Level: 9-12
Credit: ½ credit per semester (elective)
This course is designed for students who are not enrolled in a general education math class. The class reinforces math skills and supports deficit areas with specialized instruction and a modified curriculum as determined by the Individualized Education Program (IEP).

MATH SUPPORT – ALGEBRA I
Course Number: SP1200
Prerequisites: Geared to students with learning disabilities (LD)
Grade Level: 9-12
Credit: ½ credit per semester (elective)
This course is designed for students who are also enrolled in a general education math class. The curriculum reinforces math skills and supports deficit areas experienced in general education Algebra I classes.

MATH SUPPORT
Course Number: SP2200
Prerequisites: Geared to students with learning disabilities (LD)
Grade Level: 9-12
Credit: ½ credit per semester (elective)
This course is designed for students who are also enrolled in a general education math class. The curriculum reinforces math skills and supports deficit areas experienced in general education.

SCIENCE SKILLS
Course Number: SP2310
Prerequisites: Geared to students with intellectual disabilities (ID)
Grade Level: 9-12
Credit: ½ credit per semester (elective)
Science Skills is a course composed of the following three strands: Life Science, Earth Science and Physical Science. Course objectives are designed to ensure that students are exposed to critical information that will make them better informed and more productive citizens. Students in this course are not currently enrolled in general education science courses.
SOCIAL STUDIES SKILLS
Course Number: SP1410
Prerequisites: Geared to students with intellectual disabilities (ID)
Grade Level: 9, 10
Credit: ½ credit per semester (elective)
Social Studies Skills is a course composed of the following three strands: Geography, U.S. History and Government. The course is designed to ensure that students are exposed to critical information that will make them better informed and more productive citizens. Students in this course are not currently enrolled in general education social studies courses.

HEALTH & DAILY LIVING
Course Number: SP0300
Prerequisites: Geared to students with intellectual disabilities (ID)
Grade Level: 9-12
Credit: ½ credit per semester (elective)
Health and Daily Living is designed for students who are not enrolled in general education courses and read and write at or below fourth grade level. Students will learn information needed to lead a healthy life. Topics covered in the course are the systems of the human body, common safety precautions, first aid techniques, as well as prevention techniques. The course also covers appearance, peer pressure, nutrition and fitness. Drug and Family Life Education are included in this course. Additionally, students will learn about health resources in the community and how to access those resources.

CAREERS
Course Number: SP0400
Prerequisites: Geared to students with intellectual disabilities (ID)
Grade Level: 9-12
Credit: ½ credit per semester (elective)
This course is designed for students who read and write at or below fourth grade level and are not enrolled in general education courses. Students will learn a career-planning process, assess their abilities, analyze those abilities and make realistic decisions regarding career options. Students will be exposed to a variety of career options. They will learn to set goals and follow through with goal attainment. Additionally, students will learn appropriate work behaviors and habits, understand the job application process and participate in the interview process.

FUNCTIONAL SKILLS
Course Number: SP0600
Prerequisites: Geared to students with intellectual disabilities (ID)
Grade Level: 9-12
Credit: ½ credit per semester
Instruction is designed to incorporate functional skills, to promote transfer of skills and to foster the growth of appropriate social skills. Experiences in the prevocational and vocational area in addition to those that increase the students’ abilities in independent living are emphasized daily.

LIFE SKILLS
Course Number: SP0500
Prerequisites: Geared to students with intellectual disabilities (ID)
Grade Level: 9-12
Credit: ½ credit per semester
Instruction is designed to incorporate functional skills, to promote transfer of skills and to foster the growth of appropriate social skills. Experiences in the prevocational and vocational area in addition to those that increase the students’ abilities in independent living are emphasized daily.
PRACTICAL ASSESSMENT EXPLORATION SYSTEM LAB
Course Number: SP3320
Prerequisites: Geared to all students with disabilities
Grade Level: 9-12
Credit: ½ credit per semester
Practical Assessment Exploration System (PAES®) provides work and life skill training, vocational work assessment, work exploration, appropriate work behavior development, data collection and student reporting, and an accurate description of student performance & employment potential.

WORK EXPERIENCE PROGRAM (WE) II
Course Number: SP3330
Prerequisites: Geared to students with mild to moderate disabilities; Work Awareness and Transition (School-based Enterprise) experience preferred; PAES Lab experience preferred
Grade Level: 10-12+
Credit: ½ credit per semester
This program is designed to not only expose students to an unpaid work experience, but to give them the competencies necessary to work in the community. Site approval is done through the Transition Specialist, is done in the community, and is with or without a Job Coach.

VERSABILITY RESOURCES, INC. (FORMALLY ARC SUPPORTED EMPLOYMENT)
Course Number: SP3390
Prerequisites: Geared to students with mild, moderate, or severe disabilities; SBE experience preferred; PAES Lab experience preferred; WE II experience preferred; Send completed application to Transition Specialist; Successful interview
Grade Level: 11, 12, 12+
Credit: ½ credit per semester
VersAbility Resources has work environments that are structured, supervised, and provides on-going employment training. Persons receiving services are persons with intellectual disabilities, developmental delays, and/or other physiological disabilities.

PROJECT SEARCH
Course Number: SP4120
Prerequisites: Geared to students with mild, moderate, or severe disabilities; Eligibility with DARS**; Graduate with an Applied Studies Diploma; Eligible to Re-enroll; Application through Transition Specialist; Successful Interview
Grade Level: 12+
Project SEARCH High School Transition Program is a unique, business-led, one-year, school-to-work program that takes place entirely at the workplace. Total workplace immersion facilitates a seamless combination of classroom instruction, career exploration, and relevant job-skills training through strategically designed internships.

THEATRE COURSES

THEATER ARTS GRADE 6
Course Number: EE6009
Prerequisites: None
Grade Level: 6
Theater Arts Grade 6 is designed to provide students with an introduction to the study of theatre history, literature and production. This course prepares students for further theatrical study and nurtures an appreciation for the many forms of theatre.
THEATER ARTS GRADE 7
Course Number: EE7009
Prerequisites: None
Grade Level: 7
Theater Arts Grade 7 is designed to provide students with an introduction to the study of theatre history, literature and production. Through research, planning, scripting, production, and performance experiences, students acquire skills in communicating ideas, critical thinking and collaborative problem solving.

THEATER ARTS GRADE 8
Course Number: EE8009
Prerequisites: None
Grade Level: 8
Theater Arts Grade 8 is designed to provide students with an introduction to the study of theatre history, literature and production. Through research, planning, scripting, production, and performance experiences, students acquire skills in communicating ideas, critical thinking, and collaborative problem solving. This course prepares students for further theatrical study and nurtures an appreciation for the many forms of theatre.

THEATER ARTS I
Course Number: EE0100
Prerequisites: None
Grade Level: 9-12
Credit: ½ credit per semester
Theater Arts I includes an overview of the structure of drama, the basic mechanics of acting, history of theatre, varieties of theatre, dramatic criticism, techniques of stage direction, elements of play production and contemporary theatre awareness.

THEATER ARTS II
Course Number: EE0200
Prerequisites: Successful completion of Theater Arts I
Grade Level: 10-12
Credit: ½ credit per semester
Theater Arts II includes a study of the American theatre, the types and styles of theatre, dramatic criticism, stage and acting terms, intermediate acting techniques, play directing and technical and contemporary theatre awareness.

THEATER ARTS III
Course Number: EE0300
Prerequisites: Successful completion of Theater Arts II
Grade Level: 11, 12
Credit: ½ credit per semester
Theater Arts III includes instruction in advanced acting, dramatic criticism, stage and acting terms, types and styles of dramas, play writing, directing, theatre maintenance, technical theatre and contemporary performing arts.

ADVANCED THEATER ARTS IV
Course Number: EE5450
Prerequisites: Successful completion of Theater I-III
Grade Level: 12
Credit: ½ credit per semester (+0.5 for Honors)
An intensive study of acting and theatre arts to challenge the advanced student. Students will increase acting skills through advanced exploration of modern acting theory. Will include preparation for college admission requirements and other professional opportunities including local and national theatre auditions. Students broaden their abilities in playwriting, directing, and stage management. Critical analysis skills will increase with viewing and participating in performances.
STAGECRAFT I
Course Number: EE0400
Prerequisites: None
Grade Level: 10-12
Credit: ½ credit per semester
Stagecraft I concentrates on the technical aspects of theatre and play production. The course content includes scenic design and set construction, lighting design and execution, costume and make-up design, properties and property design, special effects, sound techniques, stage terms, stage management, stage personnel duties, business management and types of stages.

STAGECRAFT II
Course Number: EE0420
Prerequisites: Successful completion of Theater III and Stagecraft I
Grade Level: 12
Credit: ½ credit per semester
Stagecraft II explores the craft of Playwriting. The student will learn proper play script format, directing techniques and upper level acting methods. The course also continues the scenic design techniques the students acquired in Stagecraft I.

WORLD LANGUAGE COURSES
World Language courses are delivered in a specified sequence of study. The first year has no prerequisite. Each succeeding year, however, is dependent upon the previous year’s learning. No two courses in the sequence may be taken concurrently.

INTRODUCTION TO WORLD LANGUAGES
Course Number: 6th – RN6IWL, 7th – WL7409
Prerequisites: None
Grade Level: 6, 7
This course will provide students with an introduction to French, German and Spanish languages and related cultures, and may be offered as a one quarter, one semester or full year course.

SPANISH IA & IB
Course Number: IA – WL7010, IB – WL8020
Prerequisites: None
Grade Level: 7, 8
Credit: ½ credit per year
Successful completion of both Spanish IA in 7th grade and Spanish IB in 8th grade is the equivalent of Spanish I taken as a one-year course in 8th grade or high school. A sequence of five years of Spanish courses is available. The emphasis in these courses is on the development of listening, speaking, reading and writing skills in the target language. Students also gain an understanding of various Spanish-speaking cultures.

FRENCH IA & IB
Course Number: IA – WL7110, IB – WL8120
Prerequisites: None
Grade Level: 7, 8
Credit: ½ credit per year
Successful completion of both French IA in 7th grade and French IB in 8th grade is the equivalent of French I taken as a one-year course in 8th grade or high school. A sequence of five years of French courses is available. The emphasis in these courses is on the development of listening, speaking, reading and writing skills in the target language. The courses also offer students a better understanding of the French-speaking world.
GERMAN IA & IB
Course Number: IA – WL7210, IB – WL8220
Prerequisites: None
Grade Level: 7, 8
Credit: ½ credit per year
Successful completion of both German IA in 7th grade and German IB in 8th grade is the equivalent of German I taken as a one-year course in 8th grade or high school. A sequence of five years of German courses is available. The emphasis in these courses is on the development of listening, speaking, reading and writing skills in the target language. The courses also provide students with an understanding of the cultures of German-speaking countries.

SPANISH I
Course Number: WL8000
Prerequisites: None
Grade Level: 8
Credit: ½ credit per semester
Spanish I in the 8th grade is equivalent to Spanish I at the high school. A sequence of five years of Spanish courses is available. The emphasis in these courses is on the development of listening, speaking, reading and writing skills in the target language. Students also gain an understanding of various Spanish-speaking cultures.

FRENCH I
Course Number: WL8100
Prerequisites: None
Grade Level: 8
Credit: ½ credit per semester
French I in the 8th grade is equivalent to French I at the high school. A sequence of five years of French courses is available. The emphasis in these courses is on the development of listening, speaking, reading and writing skills in the target language. The courses also offer students a better understanding of the French-speaking world.

GERMAN I
Course Number: WL8200
Prerequisites: None
Grade Level: 8
Credit: ½ credit per semester
German I in the 8th grade is equivalent to German I at the high school. A sequence of five years of German courses is available. The emphasis in these courses is on the development of listening, speaking, reading and writing skills in the target language. The courses also provide students with an understanding of the cultures of German-speaking countries.

NATIVE SPANISH I & II
Course Number: I – WL0130, II – WL0230
Prerequisite: Level I – placement exam; Level II – Successful completion of previous level or equivalent
Grade Level: 9-12
Credit: ½ credit per semester
OFFERED ONLY AT DENBIGH HIGH SCHOOL
A sequence of two years of Spanish courses is available to native and heritage speakers of Spanish, leading to Advanced Placement Spanish in the third year. The emphasis in these courses is on refinement of the four skills of listening, speaking, reading, and writing, with a special emphasis on development of literacy skills. These courses also offer students a better understanding of the Latin American and Spanish culture. Spanish is used 100% of the time in class for instruction and interaction between students.
SPANISH I, II, III, IV & AP
Prerequisites: Level I – none; Levels II-AP – Successful completion of previous levels or equivalent.
Grade Level: 9-12
Credit: ½ credit per semester (+0.5 weighted credit for III & IV and +1.0 weighted credit for AP)
A sequence of five years of Spanish courses is available. The emphasis in these courses is on the
development of listening, speaking, reading, and writing skills in the target language. Students also gain an understanding of
various Spanish-speaking cultures. Separate sections of Spanish for native speakers may be available. AP Spanish students
prepare for and take the College Board’s Advanced Placement Test, and those who receive an acceptable score on the test may
receive college credit and/or advanced standing in college.

AP SPANISH LITERATURE AND CULTURE
Course Number: WL0510
Prerequisites: Successful completion of AP Spanish Language & Culture course.
Grade Level: 12
Credit: ½ credit per semester (+0.5 weighted credit for III & IV and +1.0 weighted credit for AP)
The AP Spanish Literature and Culture course uses a thematic approach to introduce students to representative texts from
Peninsular Spanish, Latin American, and United States Hispanic literature. Students continue to develop proficiencies across the
full range of the modes of communication, sharpening their critical reading and analytical writing skills. Literature is examined
within the context of its time and place, as students reflect on the many voices and cultures present in the required readings.
The course also includes a strong focus on cultural connections and comparisons, including exploration of various media.
Students prepare for and take the College Board’s Advanced Placement Test, and those who receive an acceptable score on the
test may receive college credit/or advanced standing in college.

FRENCH I, II, III, IV & AP
Course Number: WL1100, WL1200, WL1350, WL1400, WL1500
Prerequisites: Level I – none; Levels II-AP – Successful completion of previous levels or equivalent.
Grade Level: 9-12
Credit: ½ credit per semester (+0.5 weighted credit for III & IV and +1.0 weighted credit for AP)
A sequence of five years of French courses is available. The emphasis in these courses is on the development of listening,
speaking, reading, and writing skills in the target language. The courses also offer students a better understanding of the
French-Speaking world. AP French students prepare for and take the College Board’s Advanced Placement Test, and those who
receive an acceptable score on the test may receive college credit and/or advanced standing in college.

GERMAN I, II, III, IV & AP
Course Number: WL2100, WL2200, WL2350, WL2400, WL2500
Prerequisites: Level I – none; Levels II-AP – Successful completion of previous levels or equivalent.
Grade Level: 9-12
Credit: ½ credit per semester (+0.5 weighted credit for III & IV and +1.0 weighted credit for AP)
A sequence of five years of German courses is available. The emphasis in these courses is on the development of listening,
speaking, reading, and writing skills in the target language. The courses also provide students with an understanding of the
cultures of German-speaking countries. AP German students prepare for and take the College Board’s Advanced Placement
Test, and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college.
LATIN I, II, III & AP

Course Number: WL3100, WL3200, WL3350, WL3500

Prerequisites: Level I – none; Levels II-AP – Successful completion of previous levels or equivalent.
Grade Level: 9-12
Credit: ½ credit per semester (+0.5 weighted credit for II and +1.0 weighted credit for AP)
OFFERED ONLY AT MENCHVILLE HIGH SCHOOL

A sequence of four years of Latin courses is available. The beginning courses emphasize the fundamental principles of the language. Students are provided a working knowledge of the facts and terminology of both English and Latin. Students develop the ability to read and comprehend Latin. The works of Latin authors are read and, in the fourth year, students are introduced to the poetry and prose of Virgil and Cicero. AP Latin students prepare for and take the College Board’s Advanced Placement Test, and those who receive an acceptable score on the test may receive college credit and/or advanced standing in college.
Governor’s Early College Scholars Agreement

The responsibilities of each party are outlined herein and the corresponding signature assures acceptance of responsibility of each party.

The student agrees to:
- Earn an Advanced Studies Diploma with a Governor’s Seal;
  - To receive a Governor’s seal, students must
  - Complete the requirements for the Advanced Studies Diploma;
  - Earn a "b" average or higher; and
  - Successfully complete at least one Advanced Placement (AP), International Baccalaureate (IB), or one college-level course for credit
- Earn at least 15 transferable college credits while enrolled in high school. College credits toward completion of this Agreement will be considered earned by:
  - Completing dual enrollment/dual credit courses and earning a "C" or better in the courses
  - Completing advanced placement courses i.e., AP, IB or Cambridge and
  - Scoring a "3" or higher on the AP examinations or
  - Scoring a "4" or higher on any form of the IB examinations or
  - Scoring a "D" or better on the Cambridge examinations
  - Earning college credits by passing College Level Examination Program (CLEP) examinations
  - Completing college-level courses and document credit awarded
- Apply and be accepted to a college or university

_____________________________________   __________________
Student Signature   Date

The parent/guardian agrees to:
- Support and monitor student’s academic work and progress in school, particularly as it relates to fulfillment of the requirements for the Governor’s Early College Scholars Agreement.

I understand that the actual number of transferable college credits awarded depends on the criteria of the admitting college or university.

_____________________________________   __________________
Parent/Guardian Signature   Date

The high school agrees to:
- Provide the student opportunities to access college-level courses and/or advanced placement courses needed to fulfill this agreement.
- Provide the counseling services needed to fulfill the requirements of the Governor’s Early College Scholars Agreement, including assisting students in developing a program of study.
- Provide the Virginia Department of Education with data regarding participation and completion of the Governor’s Early College Scholars program.

_____________________________________   __________________
High School Principal Signature   Date

_____________________________________   __________________
High School Guidance Counselor Signature   Date

Student Number: ________________________
Newport News Scholars Program Application

Student’s Name: ______________________________________  Date: ___________________
Counselor’s Name: ____________________________________

**The student agrees to:**
- Earn an Advanced Studies Diploma
- Earn at least five Advanced Placement courses (at least one for each core content area – English, social studies, science, and mathematics as well as a dual enrollment (college course) or an additional Advanced Placement course must be included in the student's program of study to qualify for a Scholar’s Seal and take the Advanced Placement examination for all Advanced Placement courses taken.
- Complete a four-course sequence in at least one world language.
- Complete an individual Newport News Public Schools Scholars Project (see details on the attached document).
- Earn at least one hundred hours of elective community service which should be completed by the end of the eleventh grade (see details on the attached document).

________________________________________   __________________
Student Signature   Date

**The parent/guardian agrees to:**
- Support and monitor the student’s academic work and progress in school, particularly as it relates to the fulfillment of the requirements for the Newport News Public Schools Scholars Agreement.

________________________________________   __________________
Parent/Guardian Signature   Date

**PROPOSED SCHOLARS RESEARCH PROJECT**
On a separate double-spaced typed sheet of paper, please describe your proposed NNPS Scholars Project. The description should be clear and concise and not exceed 250 words. It should include what you plan to study/research, why this is important to study/research and your plan for the research/study. In addition, please describe the tangible product, i.e. advanced research paper/thesis, complex multi-media project, a specialized portfolio, etc.

**PROPOSED COMMUNITY SERVICE PROJECT**
On a separate double-spaced typed sheet of paper, describe your community service project. Describe how the project will benefit the citizens of Newport News. Your description should not exceed 100 words.

**PLEASE SUBMIT THE COMPLETED APPLICATION TO YOUR SCHOOL COUNSELOR** by the last day of the first semester.

For Office Use Only
- [ ] Research Project Approved
- [ ] Research Project **Not** Approved
- [ ] Community Service Project Approved
- [ ] Community Service Project **Not** Approved
<table>
<thead>
<tr>
<th>School Name</th>
<th>Address</th>
<th>Principal</th>
<th>Counselor</th>
<th>Phone</th>
<th>Fax</th>
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<tr>
<td>Achievable Dream Middle and High School</td>
<td>5720 Marshall Avenue, 23605-2420</td>
<td>Marilyn Sinclair-White, Principal</td>
<td>757-283-7820 • Fax: 757-283-7844</td>
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<tr>
<td>Denbigh High School</td>
<td>259 Denbigh Boulevard, 23608-3399</td>
<td>Dr. Eleanor Blowe, Principal</td>
<td>Serethea D. Brown, School Counseling Director</td>
<td>757-886-7700 • Fax: 757-872-6542</td>
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<td>Heritage High School</td>
<td>5800 Marshall Avenue, 23605-2420</td>
<td>Shameka N. Gerald, Principal</td>
<td>Robert Mompoint, School Counseling Director</td>
<td>757-928-6100 • Fax: 757-247-9058</td>
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<td>Menchville High School</td>
<td>275 Menchville Road, 23602-6895</td>
<td>Robert Surry, Principal</td>
<td>Lorraine Adkins, School Counseling Director</td>
<td>757-886-7722 • Fax: 757-875-0648</td>
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<td>Warwick High School</td>
<td>51 Copeland Lane, 23601-2399</td>
<td>Dr. Kellie Mason, Principal</td>
<td>Donzaleigh Douglas, School Counseling Director</td>
<td>757-591-4700 • Fax: 757-596-7415</td>
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<tr>
<td>Woodside High School</td>
<td>13450 Woodside Lane, 23608-1364</td>
<td>Dr. Windy Nichols, Principal</td>
<td>Andrea Simon, School Counseling Director</td>
<td>757-886-7530 • Fax: 757-877-0480</td>
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<tr>
<td>Crittenden Middle School</td>
<td>6158 Jefferson Avenue, 23605</td>
<td>Natia Smith, Interim Principal</td>
<td></td>
<td>757-591-4900 • Fax: 757-838-8261</td>
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<tr>
<td>Dozier Middle School</td>
<td>432 Industrial Park Drive, 23608</td>
<td>Crystal Haskins, Principal</td>
<td></td>
<td>757-888-3300 • Fax: 757-887-3662</td>
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<td>Gildersleeve Middle School</td>
<td>1 Minton Drive, 23601</td>
<td>Fred Cheeks, Interim Principal</td>
<td></td>
<td>757-591-4862 • Fax: 757-596-2059</td>
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<tr>
<td>Hines Middle School</td>
<td>561 McLawhorne Drive, 23601</td>
<td>Lisa Gatz-Daniel, Principal</td>
<td></td>
<td>757-591-4878 • Fax: 757-591-0119</td>
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<tr>
<td>Huntington Middle School</td>
<td>5800 Marshall Avenue, 23605</td>
<td>Courtney Mompoint, Principal</td>
<td></td>
<td>757-928-6846 • Fax: 757-245-8451</td>
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<tr>
<td>Passage Middle School</td>
<td>400 Atkinson Way, 23608</td>
<td>Janelle Spitz, Principal</td>
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<td>757-886-7600 • Fax: 757-886-7661</td>
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<tr>
<td>B.T. Washington Middle School</td>
<td>3700 Chestnut Ave, 23607</td>
<td>Dr. Sean Callender, Principal</td>
<td></td>
<td>757-928-6860 • Fax: 757-247-1119</td>
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</tbody>
</table>
TEACHING AND LEARNING

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Supervisor, Career & Technical Education  
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Supervisor, English  
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Patricia Franklin  
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Principal, New Horizons at Butler Farm Road Hampton  
757-766-1100

Susanna Bailey  
Supervisor, World Language K – 12  
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Bruce Schaffer  
Principal, New Horizons at Woodside Lane Newport News  
757-874-444
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