

# Prince Edward County High School



Program of Studies  
2011-2012

## **School Information**

### **Principal**

Mr. Craig B. Reed

### **Assistant Principals**

Ms. Cynthia Johnson

Mr. Danny Soderholm

### **Coordinator of Adult/Career and Technical Education**

Ms. Mary Beth Blessing

### **Director of Athletics and Student Activities**

Mr. Rodney Kane

### **Guidance Counselors**

Ms. Maribeth Ewing (Grades 11 and 12)

Mr. Gary Sims (Grades 9 and 10)

### **Registrar**

Ms. Patricia Holcomb

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# Diplomas and Graduation Requirements

**8 VAC 20-131-50:** The requirements for a student to earn a diploma and graduate from a Virginia High School shall be those in effect **when that student enters the ninth grade for the first time.**

**Beginning in the school year 2011-2012, the state of Virginia recognizes six diplomas:** (1) Standard Diploma; (2) Standard Technical Diploma; (3) Advanced Studies Diploma; (4) Advanced Technical Diploma; (5) Modified Standard Diploma; and (6) Special (IEP) Diploma.

**Students in Prince Edward County Schools, who entered the ninth grade prior to the school year 2011-2012** (graduating classes of 2012, 2013, 2014), may choose between the Standard Diploma and the Advanced Studies Diploma, or if eligible, the Modified Standard Diploma. Students are required to complete 28 units of credit for the standard diploma and 30 units of credits for the advanced diploma. Seniors are required to meet the minimum requirements for graduation before graduation day in order to participate in the graduation ceremony. Any senior who needs to attend alternative programs over the summer to complete course requirements for graduation will not be allowed to participate in the graduation ceremony.

**Students in Prince Edward County Schools, who enter the ninth grade in the school year 2011-2012 and later,** (graduating classes of 2015 and beyond) may choose among the Standard Diploma, the Standard Technical Diploma, the Advanced Studies Diploma and the Advanced Technical Diploma, or if eligible, the Modified Standard Diploma. Students are required to complete 22 units of credit for the standard diplomas and 26 units of credits for the advanced diplomas. Seniors are required to meet the minimum requirements for graduation before graduation day in order to participate in the graduation ceremony. Any senior who needs to attend alternative programs over the summer to complete course requirements for graduation will not be allowed to participate in the graduation ceremony.

**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 Individual Education Program (IEP) team and the student, where appropriate, at any point after the student's eighth grade year. Those students who pursue the Modified Standard Diploma shall be required to pass the 8th grade SOL tests in both English (Reading, Literature, and Research) and mathematics to meet the literacy and numeracy requirements of this diploma. The student who has chosen to pursue a Modified Standard Diploma shall also be allowed to pursue the Standard, Technical Standard, Advanced Studies or Advanced Technical Diploma at any time throughout that student's high school career.

In accordance with the requirements of the Standards of Quality, students with disabilities who complete the requirements of their Individualized Education Program (IEP) and do not meet the requirements for other diplomas shall be awarded **Special Diplomas.**

## What is a Standard Unit of Credit?

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

## What is a Verified Credit?

**Verified Credit = Passing the class and the SOL test**

A "verified unit of credit" for graduation is a course credit based on a minimum of 140 clock hours of instruction, successful completion of the requirements of the course, and the achievement by the student of a passing score on the end-of-course SOL (Standards of Learning) test for that course. Students must earn six (6) verified credits in order to receive a Standard Diploma or a Standard Technical Diploma and nine (9) verified credits in order to

receive an Advanced Studies Diploma or an Advanced Technical Diploma. For further information, please see the explanation of the SOL tests and verified credits at the Virginia Department of Education web site:  
<http://www.doe.virginia.gov/testing/index.shtml>

## Which courses require SOL (Standards of Learning) tests?

At this time, 11 SOL tests are given at the end of the course in the following subjects:

- Mathematics:** Algebra I, Geometry, Algebra II
- Science:** Earth Science, Biology, Chemistry
- Social Studies:** World History I, World History II, Virginia/US History
- English:** English 11 Reading, English 11 Writing

Students who:

- pass the SOL test, pass the SOL course, and meet requirements for attendance will be granted a verified credit.
- fail the SOL test and fail the course must retake the SOL test and the SOL course in order to receive a verified or regular credit.

Students may retake tests needed to earn verified units of credit for graduation. Students who score between 375-399 on a test are eligible for an expedited retake and may retake a test before the next scheduled test administration. Students who after remediation fail a retake of history/social studies or science test, but achieve a score of 375 or better, may be awarded a verified credit by their local school board, following a review of their class work and/or demonstration of their mastery of the content of the course. Verified credits awarded in this manner are given at the discretion of local school boards and apply only toward a Standard Diploma. Ask your school counselor for more information about locally awarded verified credits.

All students in SOL classes will take the SOL test at the end of the SOL course, but will not be required to take a final exam. Teachers will average the three six weeks grades to determine the course grade.

## Who is a Vocational Completer?

A vocational completer is a student who has met the requirements for a vocational concentration or a vocational specialization and all requirements for high school graduation or an approved alternative education program.

In Prince Edward County, the number of courses required to complete each vocational concentration are:

Agriculture:	3 courses
Air Force JROTC	4 courses
Automotive	5 courses
Building Trades	3 courses
Business	3 courses
Computer Assisted Drafting	5 courses
Culinary Arts	5 courses
Electronics	3 courses
Health Occupations	5 courses

## **Requirements for a Standard Diploma for students who entered Grade 9 in the school year 2010-2011 or earlier: 28 credits/6 Verified Credits**

Subject	Units of Credit	Verified Credits Required
English <sup>1</sup>	4	2
Mathematics <sup>2</sup>	3	1
Science <sup>3</sup>	3	1
Social Studies <sup>4</sup>	3	1
Health and Physical Education	2	
Foreign Language, Fine or Practical Art	1	
Electives	12	
Student Selected Test		1
<b>Total</b>	<b>28</b>	<b>6</b>

<sup>1</sup> English 9, 10, 11, 12

<sup>2</sup> Courses completed to satisfy this requirement shall be at or above the level of algebra and shall include at least two course selections from among: Algebra Functions, Algebra I, Geometry, Algebra II, or other mathematics courses above the level of algebra and geometry, and computer math

<sup>3</sup> Courses completed to satisfy this requirement shall include course selections from at least two different science disciplines: earth sciences, biology, chemistry, or physics

<sup>4</sup> Courses completed to satisfy this requirement shall include World History I, World History II, Virginia/US History; Virginia/US Government; Social Studies electives

## **Requirements for an Advanced Studies Diploma for students who entered Grade 9 in the school year 2010-2011 or earlier: 30 Credits/9 Verified Credits**

Discipline	Units of Credit	Verified Credits Required
English <sup>1</sup>	4	2
Mathematics <sup>2</sup>	4	2
Science <sup>3</sup>	4	2
Social Studies <sup>4</sup>	4	2
Foreign Language <sup>5</sup>	3	
Health and Physical Education	2	
Fine and Practical Arts	1	
Electives	8	
Student Selected Test		1
<b>Total</b>	<b>30</b>	<b>9</b>

<sup>1</sup> English 9;10;11;12 or dual enrollment English courses

<sup>2</sup> Courses completed to satisfy this requirement shall be at or above the level of algebra and shall include at least two course selections from among: Algebra I, Geometry, Algebra II, Algebra Functions and Data Analysis, or other mathematics courses above the level of algebra and geometry, computer math

<sup>3</sup> Courses completed to satisfy this requirement shall include course selections from at least three different science disciplines: earth sciences, biology, chemistry, or physics

<sup>4</sup> Courses completed to satisfy this requirement shall include Virginia/US History, Virginia/US Government, and two world history courses. Psychology is accepted as a substitute for World History II.

<sup>5</sup> Three (3) years of one foreign language or two (2) years of two (2) languages

## Requirements for a Standard Diploma for students who enter Grade 9 in the school year 2011-2012 or later: 22 credits/6 Verified Credits

Subject	Units of Credit	Verified Credits Required
English <sup>1</sup>	4	2
Mathematics <sup>2</sup>	3	1
Science <sup>3</sup>	3	1
Social Studies <sup>4</sup>	3	1
Health and Physical Education	2	
Foreign Language, Fine Arts or Vocational course	2	
Economics and Personal Finance	1	
Electives	4	
Student Selected Test		1
<b>Total</b>	<b>22</b>	<b>6</b>

<sup>1</sup> English 9; 10; 11; 12

<sup>2</sup> Courses completed to satisfy this requirement shall be at or above the level of algebra and shall include at least two course selections from among: Algebra Functions, Algebra I, Geometry, Algebra II, or other mathematics courses above the level of algebra and geometry, and computer math

<sup>3</sup> Courses completed to satisfy this requirement shall include course selections from at least two different science disciplines: earth sciences, biology, chemistry, or physics

<sup>4</sup> Courses completed to satisfy this requirement shall include World History I, World History II, Virginia/US History; Virginia/US Government; Social Studies electives

## Requirements for a Standard Technical Diploma for students who enter Grade 9 in the school year 2011-2012 or later: 22 credits/6 Verified Credits/ Vocational Completer

Subject	Units of Credit	Verified Credits Required
English <sup>1</sup>	4	2
Mathematics <sup>2</sup>	3	1
Science <sup>3</sup>	3	1
Social Studies <sup>4</sup>	3	1
Health and Physical Education	2	
Economics and Personal Finance	1	
Fine or Practical Art, Foreign Language	1	
CTE <sup>5</sup>	4	
Electives	1	
Student Selected Test		1
<b>Total</b>	<b>22</b>	<b>6</b>

<sup>1</sup> English 9, 10, 11, 12

<sup>2</sup> Courses completed to satisfy this requirement shall be at or above the level of algebra and shall include at least two course selections from among: Algebra Functions, Algebra I, Geometry, Algebra II, or other mathematics courses above the level of algebra and geometry, and computer math

<sup>3</sup> Courses completed to satisfy this requirement shall include course selections from at least two different science disciplines: earth sciences, biology, chemistry, or physics

<sup>4</sup> Courses completed to satisfy this requirement shall include World History I, World History II, Virginia/US History; Virginia/US Government; Social Studies electives

<sup>5</sup> Must complete a vocational sequence

**Requirements for an Advanced Technical Diploma for students who enter Grade 9 in the school year 2011-2012 or later: 26 Credits/ 9 Verified Credits/ Vocational Completer**

Discipline	Units of Credit	Verified Credits Required
English <sup>1</sup>	4	2
Mathematics <sup>2</sup>	4	2
Science <sup>3</sup>	4	2
Social Studies <sup>4</sup>	4	2
Foreign Language <sup>5</sup>	3	
Health and Physical Education	2	
Fine and Practical Arts	1	
Economics and Personal Finance	1	
CTE/Vocational	3	
Student Selected Test		1
<b>Total</b>	<b>26</b>	<b>9</b>

<sup>1</sup> English 9, 10, 11, 12 or dual enrollment English courses

<sup>2</sup> Courses completed to satisfy this requirement shall be at or above the level of algebra and shall include at least two course selections from among: Algebra I, Geometry, Algebra II, Algebra Functions and Data Analysis, or other mathematics courses above the level of algebra and geometry, computer math

<sup>3</sup> Courses completed to satisfy this requirement shall include course selections from at least three different science disciplines: earth sciences, biology, chemistry, or physics

<sup>4</sup> Courses completed to satisfy this requirement shall include Virginia/US History, Virginia/US Government, and two world history courses.

<sup>5</sup> Three (3) years of one (1) foreign language or two (2) years of two (2) languages

**Requirements for an Advanced Studies Diploma for students who enter Grade 9 in the school year 2011-2012 or later: 26 Credits/9 Verified Credits**

Discipline	Units of Credit	Verified Credits Required
English <sup>1</sup>	4	2
Mathematics <sup>2</sup>	4	2
Science <sup>3</sup>	4	2
Social Studies <sup>4</sup>	4	2
Foreign Language <sup>5</sup>	3	
Health and Physical Education	2	
Fine Arts or CTE course	1	
Economics and Personal Finance	1	
Electives	3	
Student Selected Test		1
<b>Total</b>	<b>26</b>	<b>9</b>

<sup>1</sup> English 9;10;11;12 or dual enrollment or Advanced Placement English courses

<sup>2</sup> Courses completed to satisfy this requirement shall be at or above the level of algebra and shall include at least two course selections from among: Algebra I, Geometry, Algebra II, Algebra Functions and Data Analysis, or other mathematics courses above the level of algebra and geometry, computer math

<sup>3</sup> Courses completed to satisfy this requirement shall include course selections from at least three different science disciplines: earth sciences, biology, chemistry, or physics

<sup>4</sup> Courses completed to satisfy this requirement shall include Virginia/US History, Virginia/US Government, and two world history courses.

Psychology is accepted as a substitute for World History II.

<sup>5</sup> Three (3) years of one foreign language or two (2) years of two (2) languages

## Advanced Studies Diploma or Advanced Technical Diploma?

Students who complete all requirements leading to both an Advanced Studies Diploma and an Advanced Technical Diploma may choose which diploma to receive.

## Requirements for a Modified Standard Diploma

*Available to Special Education Students Only*

Discipline	Units of Credit	Verified Units Required
English	4	8 <sup>th</sup> Grade SOL in English
Mathematics <sup>1</sup>	3	8 <sup>th</sup> Grade SOL in Math
Science <sup>2</sup>	2	
History and Social Science <sup>3</sup>	2	
Health and PE	2	
Fine or Practical Arts	1	
Electives <sup>4</sup>	6	
Total	20	2

<sup>1</sup> Courses completed to satisfy this requirement shall include content from among applications of algebra, geometry, personal finance, and statistics, including courses such as Algebra I, Geometry and Computer Math.

<sup>2</sup> Courses completed shall include content from at least two of the following: applications of earth science, biology, chemistry, or physics, including courses such as Earth Science and Biology.

<sup>3</sup> Courses completed to satisfy this requirement shall include one unit of credit in Virginia/US History and one unit of credit in Virginia/US Government.

<sup>4</sup> Courses to satisfy this requirement shall include at least two sequential electives in the same manner required for the Standard Diploma. All students pursuing a Modified Standard diploma are encouraged to complete a vocational sequence.

## Credit for Courses Taken in Middle School

Students who enter Grade 9 having completed courses in Spanish I, Spanish II, French I, Latin I, German I, Algebra I or Geometry, may have the GPA computed to include these courses.

In any high school credit-bearing course taken in the middle school, parents may request that grades be omitted from the student's transcript and the student not earn high school credit for the course. **Parents MUST notify the middle school IN WRITING by the end of first semester if they choose to have a grade omitted from the high school transcript.**

## Economics and Personal Finance Requirement

Beginning with students entering Grade 9 in Fall 2011, one standard unit of credit in Economics and Personal Finance is required for graduation with the standard and advanced diplomas. Students may earn this credit by successfully completing the course at any time during their high school career. Students with disabilities seeking a Modified Standard Diploma may use the course to satisfy one of the three required mathematics credits.

## **SOL Requirements for First Time Transfer Students to a Virginia School**

*How many verified credits do students who transfer into Virginia high schools from other states or private schools need to earn a Standard Diploma?*

Students entering a Virginia public high school for the first time during the tenth grade or at the beginning of the eleventh grade must earn a minimum of four verified units of credit, including one each in English, mathematics, history/social science, and science to receive a Standard Diploma. These students are eligible for locally awarded verified credits in science and history/social science and are also eligible for verified credits earned through career and technical education.

Students entering a Virginia public high school for the first time during the eleventh grade or at the beginning of the twelfth grade must earn a minimum of two verified credits, including one in English and one in a subject of their own choosing to receive a Standard Diploma.

*How many verified credits do students who transfer into Virginia high schools from other states or private schools need to earn an Advanced Studies Diploma?*

Students entering a Virginia public high school for the first time during the tenth grade or at the beginning of the eleventh grade must earn a minimum of six verified credits, including two in English, one each in mathematics, history/social science, and science, and one in a subject of their own choosing to receive an Advanced Studies Diploma.

Students entering a Virginia public high school for the first time during the eleventh grade or at the beginning of the twelfth grade must earn a minimum of four verified units of credit, including one in English and three in subjects of their own choosing to receive an Advanced Studies Diploma.

*What about students who transfer to a Virginia public high school during their senior year?*

Students transferring after 20 instructional hours per course of their senior year shall be given every opportunity to earn a Standard Diploma or Advanced Studies Diploma. If it is not possible for the student to meet the requirements for a Virginia Standard Diploma or Advanced Studies 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. Your school counselor can tell you more about how to apply for a waiver.

*May end-of-course assessments taken in other states be substituted for SOL tests in the awarding of verified credits?*

The Board of Education accepts content-based high school end-of-course tests administered as a part of another state's accountability system for the purpose of awarding verified credit to students who transfer to Virginia public schools. When students transfer to a Virginia public school from a state that requires such high school end-of-course tests, the local school division may automatically accept the student's passing score on the test and the corresponding course for the purposes of awarding verified credit.

When students transfer to a Virginia public school from a state that requires a comprehensive subject area examination as a prerequisite for graduation from high school, VDOE — at the request of the division superintendent — will review the examination to determine its suitability for use to award verified credit. In order for a test to be deemed suitable for use, the test must be approved as part of another state's accountability system and approved through the federal standards and assessment peer review process. Such requests shall be submitted by the division superintendent within 30 days of receipt of the student's record.

## Special Seals

*Governor's Seal* - Students who complete the requirements for an Advanced Studies Diploma with an average of “B” or better, and successfully complete at least one advanced placement course (AP), international baccalaureate (IB) or one college-level course for credit, will receive the Governor’s Seal on the diploma.

*Board of Education Seal* - Students who complete the requirements for a Standard Diploma with an average of “A” will receive a Board of Education Seal on the diploma.

*Career and Technical Education Seal* - A 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. Students must maintain a “B” or better average in those courses; or (a) pass an examination in a career and technical education concentration or specialization that confers certification from a recognized industry, trade or professional association or (b) acquire a professional license in that career and technical education field from the Commonwealth of Virginia.

*Advanced Mathematics and Technology Seal* - An Advanced Mathematics and Technology Seal will be awarded to students who earn either a Standard or Advanced Studies Diploma and (a) satisfy all of the mathematics requirements for the Advanced Studies Diploma (four units of credit including Algebra II; two verified units of credit) with a “B” average or better; and (b) either (1) pass an examination in a career and technical education field that confers certification from a recognized industry, or trade or professional association; (2) acquire a professional license in a career and technical education field from the Commonwealth of Virginia; or (3) pass an examination approved by the Board that confers college-level credit in a technology or computer science area.

*Virginia Scholars Seal* - The Virginia Scholars Seal recognizes students who make good grades, take the recommended courses, and have an acceptable attendance record. Virginia Scholars will be recognized at the end of the senior year with a seal placed on the transcript and diploma. To achieve status as a Virginia Scholar, students must show competencies in six areas: 1. Curriculum: Students must successfully complete the recommended courses in preparation for post-secondary education or employment. This includes at least three years of math and science, four years of English and three years of social sciences. Two years of a foreign language is recommended. 2. Standards of Learning (SOL) Verified Credits: Students must earn at least six SOL verified credits. 3. Grades: Students must earn good grades each semester in all high school courses. No semester grade may be lower than a C. 4. Attendance: Students must achieve a 95% or better attendance record. That is no more than five absences per semester. 5. Commitment: Students must complete their high school education in eight consecutive semesters. 6. Citizenship: Students must demonstrate self-discipline by never being suspended out of school.

*Early College Scholars Seal.* This 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 or an Advanced Technical 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 (1) have a “B” average or better; (2) be pursuing an Advanced Studies Diploma or an Advanced Technical Diploma; and (3) 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.

## Promotion Requirements

**9th to 10th Grade:** a minimum of 6 credits (including one unit of English); 1 Verified Credit

**10th to 11th Grade:** a minimum of 13 credits (including two English, one math, one science, one history);  
3 Verified Credits

**11th to 12th Grade:** a minimum of 20 credits (including three English, two math, two science, two history);  
4 Verified Credits

## Class Rank

Student class rank is determined by assigning point values to grades. Certain academic courses, because of their academic difficulty, receive additional grade value. Weighted grades are given for successful completion of honors courses, dual enrollment courses, Advanced Placement courses and 4-year college courses. Successful completion of an AP course is defined as passing the class and taking the corresponding Advanced Placement exam.

Honors and dual enrollment courses are given an additional .5 weighting. When industry certification is achieved, the grade is given an additional .5 weighting. Advanced Placement and off-campus four-year college courses are given an additional 1.0 weighting. Certain on-line college classes may be considered for honors or Advanced Placement weighting upon review by the school administration.

Students who enter ninth grade and who have completed courses in a foreign language, algebra or geometry, may have the GPA computed to include these courses.

	Regular	Honors/DE	AP/4-year College
A+	4.0	4.5	5.0
A	4.0	4.5	5.0
B+	3.5	4.0	4.5
B	3.0	3.5	4.0
C+	2.5	3.0	3.5
C	2.0	2.5	3.0
D+	1.5	2.0	2.5
D	1.0	1.5	2.0
F	0	0	0

## Dual Enrollment Classes

College Credits: The School Board pays the full tuition for dual enrollment courses at the high school and the cost of college textbooks used by students. To be enrolled in dual enrollment courses, students must pass a college placement test given by Southside Virginia Community College. The test will be given by SVCC staff at the high school. To receive college credit, students must achieve a "C" or better in the dual enrollment course.

### *English*

College Composition (English 111-112) (6 sem. hrs. college credit)

Survey of Brit. Lit. (English 243-244) (6 sem. hrs. college credit.)

DE Public Speaking I (3 sem. hrs. college credit)

### *Social Studies*

US Government (PLS 211-212) (6 sem. hrs. college credit)

Criminal Justice (ADJ 100-140) (6 sem. hrs. college credit)

### *Computer and Technology*

Computer Information Systems (IST 182) (3 sem. hrs. college credit)

Word Processing (AST 141-144) (4 sem. hrs. college)

Electronics II, III (2 sem. hrs. college for each class)

Computer Assisted Drafting II,III,IV, V (DRF 151/152; DRF 231/232 3 sem hrs. for each class)

### *Nursing*

Nurse's Aide II/III/IV (NUR 120; 10 sem. hrs. college credit at completion of sequence)

## Advanced Placement Courses

Advanced Placement (AP) courses are recognized nationally and internationally as college level courses for high school students. After students complete rigorous course requirements, they take the end of the year Advanced Placement test in May. Students can earn scores from “1” to “5”, with “5” being the best score. Typically, colleges accept for course credit student scores of “3” or higher on examinations. AP coursework is viewed favorably by colleges, both within and beyond Virginia. The College Board administers all policies and procedures related to Advanced Placement. AP classes and the opportunity to take AP tests are available to all students in grades 10 through 12. The school board pays for the cost of the test.

### *AP Biology*

Recommended: AP Biology be taken concurrently with Pre-AP Chemistry

### *AP Calculus*

Recommended: AP Calculus be taken concurrently with Honors Physics

### *AP Chemistry*

Recommended: AP Chemistry be taken following AP Biology

### *AP English Language and Composition*

Recommended: AP English Language be taken concurrently with AP Virginia and US History

### *AP English Literature and Composition*

Recommended: AP English Literature be taken concurrently with DE Government

### *AP Statistics*

Recommended: AP Statistics be taken in the senior year if AP Calculus is completed in the junior year

### *AP US History*

Recommended: AP US History be taken concurrently with AP English Language

## Humanities

The study of literature, history, culture, and government develops advanced composition skills, reading college-level material, and practicing study skills used by successful college freshmen. Summer reading and writing assignments are recommended for all students taking advanced classes. A recommended reading list is available in April. Students who choose advanced courses should have (1) strategic reading skills; (2) desire to do A-level or B-level work in English and history; (3) a strong desire to develop writing skills; (4) an interest in reading the classics in world and American literature; and (5) a strong work ethic.

### **English:**

Pre-AP World Lit I (Grade 9)  
Pre-AP World Lit II (Grade 10)  
Honors American Literature (Grade 11)  
AP English Language and Composition (Grade 11)  
DE English 111/112 (Grade 11)  
AP English Literature and Composition (Grade 12)  
DE British Literature (Grade 12)

### **History:**

Pre-AP World History I (Grade 9)  
Pre-AP World History II (Grade 10)  
AP United States History (Grade 11)  
DE Government (Grade 12)

## The Governor's School of Southside Virginia

*The mission of The Governor's School is "to provide gifted, highly motivated juniors and seniors a challenging, interdisciplinary program of studies that develops leaders who possess the skills, global perspective, and vision needed to address the challenges of a rapidly changing society."*

The Governor's School of Southside Virginia is a cooperative venture of the following school divisions: Amelia, Brunswick, Buckingham, Charlotte, Cumberland, Danville, Dinwiddie, Greensville/Emporia, Halifax, South Boston, Lunenburg, Mecklenburg, Nottoway, Pittsylvania, and Prince Edward. The program of the Governor's School of Southside Virginia is designed to serve approximately 240 students from the region in Grades 11 and 12 who are gifted/highly capable in science and mathematics and strongly committed to academic excellence. The students are competitively selected on the basis of achievement/ability tests, interest, and teacher recommendations. Emphasis in selection is placed on motivation, a capacity for independent research, and evidence of special aptitude in math and science. Governor's School is designed as a half-day program, allowing students to attend their regular high schools by enrolling in a maximum of three additional courses. The course offerings of the Governor's School of Southside Virginia are developed into interdisciplinary thematic units which incorporate elements of the courses of chemistry, physics, technology, economics, environmental studies, composition, and analytical geometry. This is called the Humanities Strand. A typical daily schedule encompasses approximately three hours to accommodate laboratory investigations, individual work, and interdisciplinary teaming. Governor's School students have the opportunity to complete the two years and leave with an Associate's Degree. Courses offered for juniors and seniors include a combination of advanced level high school courses and dual enrollment college credit courses:

SDV 100	College Skills
ENG 111	College Comp I/ Amer. Literature
ENG 112	College Comp II/ Amer. Literature
ENG 243	Survey of English Literature
ENG 244	Survey of English Literature
ENG 211	Creative Writing I
ENG 212	Creative Writing II
HUM100	Survey of the Humanities
MTH 163	Pre-calculus I
MTH 164	Pre-calculus II
MTH 273	Calculus I
CHEM 111	College Chemistry I
BIO 101	General Biology
ECON 201	Principles of Economics I
EDU 299	Research Applications
ITE	Intro to Computers
PLS 211*	Elective
PLS 212*	Elective
HS*	Fundamentals of Research
HS*	Personal Finance
HS*	AP Virginia/US History
HS*	DE Virginia/US Government

Courses marked with \* must be taken at the home high school.

For further information, consult the high school guidance counselor or visit the GSSV web site:  
<http://www.gssv.k12.va.us>

## Southside Pre-Engineering Academy

In order to be considered for the program, a student must have completed 2 units of English; 2 units of algebra; 1 unit of geometry and Algebra II or Trigonometry with at least a B average (3.0 GPA on a 4.0 scale) on all recommended courses. The curriculum is designed to prepare the student to transfer into either a baccalaureate degree program majoring in Engineering or Science or to pursue a 4-year degree in engineering technology at various institutions offering 2+2 programs. Participation in the Southside Pre-Engineering Academy also allows high school juniors and seniors the opportunity to earn an Associate's Degree in Arts and Sciences with a major in Science if they complete additional dual enrollment classes at the high school, to include dual enrollment courses in composition British literature and U.S. Government.

SDV 100	College Skills
MTH 166	Pre-calculus with Trigonometry
MTH 175	Calculus of 1 Variable I
MTH 176	Calculus of 1 Variable II
MTH 177	Introductory Linear Algebra
MTH 178	Topics in Analytic Geometry
MTH 277	Calculus II
EGR 120	Intro to Engineering
ERG 126	Programming
PHYS 101	Intro to Physics I
PHYS 102	Intro to Physics II
CHEM 111	College Chemistry I
CHEM 112	College Chemistry II
ITE	Intro to Computers
Psychology	
Ethics	

English 111/112\* College Composition  
English 243/244\* British Literature  
AP Virginia/US History\*  
DE Virginia/US Government\*

Courses with an asterisk(\*) must be taken at the home high school.

## Gifted Services

Gifted services at Prince Edward County High School are designed to serve students who are identified as gifted in the areas of General Intellectual Aptitude, Mathematics Aptitude, Visual Arts Aptitude, and Practical Arts Aptitude. In Grades 9-12, identified gifted students are offered a full range of challenging courses, including Honors, Governor's School, and Dual Enrollment and Advanced Placement classes. Classroom teachers plan differentiated instruction as needed. Teachers of visual and practical arts classes provide identified students the opportunity to develop expertise in those areas. The coordinator of gifted services organizes extracurricular enrichment opportunities according to student needs and interests. The coordinator also plans and implements a formal mentorship program. Some identified students attend the academic year Governor's School of Southside Virginia and the Summer Regional Governor's School. Students and parents are encouraged to contact the coordinator of gifted services to learn more about the gifted program components and the eligibility requirements.

## College Classes at Hampden-Sydney and Longwood

Students in Grades 11 and 12 may enroll in college classes taken at Longwood University and Hampden-Sydney College. Only courses not offered at the high school may be taken at the college level. Any exceptions must be approved by the Division Superintendent. A college registration form must be completed at the time of pre-registration. Students can obtain a registration form from the Director of Guidance. Times of courses at the college and PECHS must be compatible. Students must state first, second, and third choices. Written parental permission must be given prior to enrollment. Final registration will be approved if there is a reasonable fit between the college and high school schedule. Additional guidelines for college courses include:

1. Fifteen (15) slots are available to juniors and seniors, with preference given to seniors.
2. All students must have a 3.0 GPA to register in a college course.
3. PECHS will encourage diversity of students in enrollment at the college.
4. Registration, to include college registration form, must be done through the PECHS Guidance Department, with students providing first, second and third class choices.
5. Written parental permission must be given prior to enrollment.
6. Priority is given as follows:
  - a. First—to those with no college credits.
  - b. Second—to those who have 12 college credits and have exhausted all classes in a certain area.
  - c. Third—to those who wish to take the college level course, even though the high school course is offered, if slots are available.
7. Final registration will be approved by PECHS, if the time of the course at the college is compatible with the PECHS schedule.
8. All college courses must be at least 3 semester hours.
9. No more than 2 classes may be taken per semester.
10. All college grades must be counted in the GPA for Honors/Honor Roll.
11. PECHS will inform the college of its procedures and policies regarding enrollment at the college.

## Independent Study

The Independent Study Program is an excellent opportunity for conscientious seniors to schedule a supervised activity/study during a block of the school day. This area of study offers students educational experiences not provided through regular classes at the high school. Sponsors might include the following: hospitals, law firms, schools, or nonprofit organizations. The Independent Study carries a Pass/Fail grade and one Carnegie Unit of high school credit. The grade is determined by the site supervisor and school administrator. Expectations from the students are listed below. Independent Study applications may be secured through Guidance or the Assistant Principal. As a part of the application process: 1) The student must obtain written permission to engage in an independent study from an organization and site supervisor; 2) The student must submit a letter from his or her parent or guardian agreeing to let the student participate in the program; 3) The student must develop a plan of action or a proposal for the study. The program is limited to 20 students per year.

NOTE: The proposal must be submitted by the first Friday of July.

## Abbreviated Schedules

Abbreviated schedules are granted to seniors on a limited basis. Seniors must have completed all but a few courses necessary for graduation. Requests for an abbreviated schedule will be reviewed on an individual basis and must be approved by the Guidance Department, the Principal, and the Superintendent **SIX WEEKS PRIOR TO THE START OF THE SCHOOL YEAR** in which the abbreviated schedule is to occur. The following restrictions apply to abbreviated schedules: 1) The student must be a senior; 2) The abbreviated schedule should be designed so a student can leave school in the afternoon; 3) The student must include proof of employment, volunteer work, continuing education, or other useful activities in the application for an abbreviated schedule.

*NOTE: Abbreviated schedules are not automatically granted to students. Students are encouraged to take full advantage of opportunities at the high school, rather than apply for an abbreviated schedule. See a guidance counselor for an abbreviated schedule request form.*

# NCAA College Freshman Athletic Eligibility Requirements

A high school student athlete planning to continue athletics in college needs to meet NCAA Clearinghouse requirements. All athletes are advised to see their counselor.

Division I, II, and III college athletes each have their own set of requirements. Please review the NCAA Guide for the College Bound Student Athlete. The requirements are updated each year in this publication (<http://www.ncaapublications.com/ProductsDetailView.aspx?sku=CB10&AspxAutoDetectCookieSupport=1>).

NCAA publications are available at no cost at [www.ncaapublications.com](http://www.ncaapublications.com).

## Academic Jackets

Students who maintain a 3.0 cumulative grade point average (GPA) through their junior year in high school will receive a school academic jacket, honoring them for their effort. In order to qualify for the academic jacket, a student must be enrolled in the academic courses at Prince Edward County High School and be on track to receive any of the offered diplomas. The jacket will be presented by the end of the first semester of the senior year at a dinner assembly. Juniors who are eligible for graduation in their junior year may qualify.

## General Education Development (GED) Program

Purpose: The GED program has three purposes: (1) to help students obtain a GED certificate, (2) to provide students with a marketable skill, and (3) to assist students to make the transition from school to work. The GED program is designed for students who are overage (two or more years over modal age for the grade) and who have not been successful in the regular high school program. The program is not for students with serious or disruptive behavior problems. To enter the program, students must be recommended by a guidance counselor and a school administrator. All students must obtain written parental permission. To qualify to take the GED tests, students must meet the following state requirements:

- (1) The student must be at least 16 years of age.
- (2) The student must be currently enrolled in a GED/ISAEP program.
- (3) The student must be within 90 days of completion of a program, which will result in the acquisition of marketable skills.\*\*
- (4) The class with which the student began is within 90 days of graduation.\*\*\*

In addition, students who wish to take the GED tests must have the written approval of the GED Director, stating that the student is prepared to meet the demands of the tests.

\*Enrollment in the GED program may include the time enrolled in Level I or the ninth grade program.

\*Program completion may occur in January or in May.

\*\*Marketable Skill: Evidence of having a marketable skill can be documented in two ways. (1) Passing at least 3 vocational courses at the high school or (2) success in a work-study program that is supervised by the GED Director and a local employer.

\*\*\* "Class" is determined by status in GED/ISAEP program, e.g. Level II or Level III. Level II or Level III students may take requirements to take the GED tests, and recommendation of GED Director.

**Attendance:** Regular attendance is expected in GED classes and at the work site.

**GED (General Educational Diploma) Course Description:** This is one-semester program designed for students to fulfill state graduation requirements. To be eligible, students must be at least 17 years old and complete a Job skill Training course (J.V.G.). The GED course of studies is divided over one semester into five modules composed of Mathematics, Science, Social Studies, Reading Comprehension, and Writing, which includes a written essay. All students entering the GED program will be monitored and assessed during the semester and will be expected to complete the GED Practice Test (end of semester) with a satisfactory passing score before the final examination begins. All practice tests and the final GED examination are timed assessments. The entrance criteria for entering the GED program is as follows: five timed tests covering all five modules listed above.

**ISAEP (Individual Student Alternative Education Plan) Course Description:** This is an alternative program for student who have tested for the GED course of studies. Students who complete the entrance examination for GED with four passing scores out the five assessments (410 passing score) are eligible. The ISAEP program allows students to focus independently on their areas of academic need for 55 days. Individual instructional attention is available. Before the end of the 55-day period, students will be assessed with the GED Practice Test in their areas of weakness. Once a passing score is obtained, the student will be scheduled for final GED examinations.

**J.V.G. Requirement (Jobs for Virginia Graduates):** Students are required to complete a Job Skill Development program along with the successful completion of all five practice tests. Students must complete 37 competencies pertaining to: personal finance, banking, resumés, cover letters, insurance and job exploration. The J.V.G. program is a state recognized curriculum ending with the student receiving a certificate of completion. Once students have completed the J.V.G. curriculum and passed all five practice tests, they are eligible for the final GED examination.

*NOTE: Enrollment in the GED program is limited. Students must meet certain requirements in order to be accepted into the GED program at PECHS. Therefore, admission is not guaranteed. To remain in the program, students must meet expectations that are outlined in the Letter of Understanding. The Letter of Understanding must be signed by the student and the parent/guardian before the student can be enrolled in the GED program. Students who are unable to meet the guidelines stipulated in the Letter of Understanding may be assigned to the district's alternative program, New Horizons.*

## Homebound Instruction

The School Board shall maintain a program of homebound instruction for students who are confined for periods that would prevent normal school attendance based upon certification of need by a licensed physician, nurse practitioner or clinical psychologist.

Upon request of the student's parent or guardian, and provided such request is certified, the Homebound Coordinator shall furnish a teacher to instruct the student at home. Any credits earned shall be considered a part of the student's regular school work and recorded as such on the cumulative record. Credit for the work shall be awarded when it is done under the supervision of a certified teacher, a person eligible to hold a Virginia certificate, or other appropriately licensed professional, employed by the local School Board.

Applicants for homebound instruction shall be approved by the superintendent or appointed designee. Medical forms must be maintained on file.

There are several categories of courses that cannot be provided through homebound instruction. These include all Dual Enrollment and Advanced Placement classes and most of the vocational courses.

## Special Education Services

PECHS provides academic instructional services to students with the following types of disabilities: Specific Learning Disability (LD), Emotional Disability (ED), Intellectual Disability (ID), Multiple Disability (MD), Autism (AUT), Deafness, Deaf-Blindness, Hearing Impairment (HI), Orthopedic Impairment (OI), Other Health Impairment (OHI), Visual Impairment (VI), Traumatic Brain Injury (TBI), and Speech/Language Impairment (SLI).

Every student has access to all courses offered, including English 9 Applications, English 10 Applications, English 11 Applications, English 12 Applications, World History Applications, U.S. History Applications, U.S. Government Applications, Earth Science Applications, Biology Applications, Environmental Science Applications, Algebra I Applications, Geometry Applications, Personal Finance Applications, Life Management, Daily Living, Pre-Employment Skills, and other selected electives.

CREDIT: 1 per course toward the student's diploma status

## **Pre-Employment Skills**

This course is designed to introduce students to the fundamental attitudes, behaviors and habits needed to obtain and maintain employment in their career choice. Students will participate in learning activities including work ethic, development of job-seeking skills, decision making skills, and self-management. Work-based learning activities are provided in community-based training. These work-based activities allow students to apply employability skills to competitive employment settings and demonstrate the effectiveness of their work personality.

Prerequisite: The student must be eligible to receive Special Education services.

CREDIT: 1 per course towards the student's diploma status

## **Course Prerequisites**

Prerequisites have been assigned to certain courses as a guide for making good decisions in course selection. In SOL courses, prerequisites are especially important. Students must pass at least six SOL tests in order to receive a Standard Diploma. "Students who fail to meet the requirements of a Standard Diploma will suffer the consequences of obtaining no diploma at all" (State School Board of Education, 11/30/00). Therefore, it is vitally important that students and parents make appropriate course selections, using prerequisites as a guide. Any student who has NOT met the prerequisites of a class will NOT be scheduled into that class without the signatures of a parent AND an administrator AND a meeting with a teacher who can inform students and parents what the course involves and why it is important to meet these requirements.

In certain cases, a waiver may be obtained in order to take a course in which the student has not met the prerequisites. A waiver form may be obtained from a guidance counselor. The principal or an assistant principal MUST approve the waiver. If the request for a waiver is denied, the parent may appeal the decision to the superintendent. Parents and students must use caution when seeking higher level courses without the appropriate preparation.

# Course Offerings

*These classes offer a guideline of possible course offerings. Not all classes may be offered each semester, due to enrollment or staffing concerns.*

## English

**READ 180 (10113008)** - READ 180 is an intensive reading intervention program designed to meet the needs of students whose reading achievement is below the proficient level. The program directly addresses individual needs through adaptive and instructional software, high-interest literature, and direct instruction in reading and writing skills. Instruction includes: *Whole-Group Direct Instruction, Modeled and Independent Reading, and Whole-Group Wrap-Up*. This is an elective course taken concurrently with English 9. The SRI (Scholastic Reading Inventory) assessment is administered to Grade 8 students in the spring to determine participants for READ 180 at the high school.

CREDIT: 1 standard credit

**ENGLISH 9 (10113000)** - This course is a review of basic grammatical skills with strong emphasis on vocabulary development. The ninth grade student will present and critique dramatic readings of literary selections and will develop proficiency in making planned oral presentations. As prescribed in the SOLs, students will gain knowledge of literary terms and forms that can be applied in written assignments and in the analysis of literature. Students will be introduced to literary works from a variety of cultures and eras. Writing will encompass narrative, literary, expository, and technical forms.

Prerequisite: None

CREDIT: 1 standard credit

**Pre-AP WORLD LITERATURE I (10113009)** – This course focuses on a variety of literary selections that are aligned with Honors World History prior to 1500 A.D. Students will gain a better understanding of the development of world civilizations and the literature associated with historical periods. Emphasis is placed on higher levels of critical thinking and oral communication skills. Increased requirements for research and reporting are supported by the use of technology. The curriculum is aligned with the SOLs associated with grammar, usage, mechanics, and literary terminology. Writing will encompass narrative, literary, and expository, with particular attention to analysis. Offered to students in Grade 9.

Prerequisite: “C” or better in prior English classes

CREDIT: 1 honors credit

**ENGLISH 10 (10114000)** - This course will assist the tenth-grade student in becoming a skilled communicator in small-group learning activities as prescribed in the SOLs. The student will read and critique literary works from a variety of eras and cultures. Attention will be given to the analysis of printed consumer materials, such as labels, owners’ manuals, warranties, and contracts. A variety of poetry will be read and critiqued. The student also will develop a variety of writing styles, with an emphasis on exposition.

Prerequisite: English 9

CREDIT: 1 standard credit

**Pre-AP WORLD LITERATURE II (10114010)** - This course correlates with Honors World History II and focuses on world literature from 1500 A.D. to the present. As mandated by the SOLs, the student will read and critique literary works from a variety of eras and cultures, including those cultures. A variety of novels will be analyzed through an interdisciplinary approach to historical periods. Other readings include poetry, dramatic selections, and short stories. Developing a high level of competency in written expression is a major goal of this

course. The student will complete a research paper using the MLA format and the Internet as a research tool. Other writing assignments will include forms such as narrative writing, expository writing, and literary analysis. Offered to students in Grade 10.

Prerequisite: English 9 or Pre-AP World Literature I, and “C” or better in English

CREDIT: 1 honors credit

**ENGLISH 11 (10115000)** - This course stresses elements of grammar, focusing on sentence structure and skills used in composing. As prescribed in the SOLs, the eleventh-grade student will be able to make and analyze persuasive oral presentations, with attention to the accuracy of evidence and the effectiveness of delivery. The student’s appreciation for literature will be enhanced by the study of American literature. The student will identify themes and characterizations present in American Literature which are reflective of the history and culture. In addition, the student will read and analyze a variety of novels. All English 11 students are required to take the SOL Writing test and the SOL Reading, Literature and Research test.

Prerequisite: English 10

CREDIT: 1 standard credit

**HONORS AMERICAN LITERATURE (10115005)** - This class correlates American literature with American history as presented in the SOLs. Students read not only from the adopted anthology, but also numerous novels, short stories, and plays in an endeavor to see how the writing of the period is a reflection of the time. Students also carefully study the author’s writing style in an effort to determine what makes the writers unique. American literary selections will be used as essay topics. Creative writing assignments are also included in order to broaden the students’ writing experiences. Projects and oral presentations are required throughout the year. This course is offered in Grade 11. All English 11 students are required to take the SOL Writing test and the SOL Reading, Literature and Research test.

Prerequisite: English 10 or Pre-AP World Literature II, and “C” or better in English

CREDIT: 1 honors credit

**AP ENGLISH LANGUAGE AND COMPOSITION (10119501)** – The AP English Language and Composition course engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer’s purposes, audience expectations, and subjects. This class is offered to students in Grade 11.

Prerequisite: A grade of “B” or better in Pre-AP World Lit. II is highly recommended.

CREDIT: 1 AP credit

**COLLEGE COMPOSITION I - II / ENGLISH 111/112 (10116102)**– This course develops writing ability for study, work, and other areas of writing based on experience, observation, research, and reading of selected literature. The course guides students in learning writing as a process: understanding audience and purpose, exploring ideas and information, composing, revising, and editing. The course supports writing by integrating, composing, revising, editing, and integrating experiences in thinking, reading, listening, and speaking. This course will be offered to students in Grade 11 and is the pre-requisite for English 243/244 British Literature. This course does not replace American Literature courses in the 11th grade.

Prerequisite: SVCC requires that students pass the college’s placement test.

CREDIT: 1 DE credit; 6 college credits

**ENGLISH 12 (10116000)**- This course examines British literature with attention to many classical works including Shakespearean plays. As mandated by the SOLs, the student will write a well documented research paper using the MLA format. English 12 will provide the opportunity for a detailed investigation of the writing process, focusing on technical writing and expository papers. Emphasis is placed on vocabulary enrichment, the elements of grammar, and critical thinking skills. Students will present and critique formal oral presentations, dramatic selections, and will read a variety of printed materials and poetry. Students will use available technology to research and produce a variety of publications.

Prerequisite: English 11

CREDIT: 1 standard credit

**BRITISH LITERATURE ENGLISH 243/244 (10116101)** - This course is a survey of English literature from its beginning to the present. It will examine the literary transition from Old English to Modern English. Works to be studied may include the poetry and prose of the Romantic and Victorian periods and the evolution of the popular (serialized) novel. The course places emphasis on critical thinking and writing. In addition to quizzes, tests, and written analysis, two research papers following the MLA format will be required.

Prerequisite: College Composition English 111/112

CREDIT: 1 DE credit; 6 college credits

**AP ENGLISH LITERATURE AND COMPOSITION (10119500)**- The equivalent of an introductory college-level survey class, this course prepares students for the AP exam and for further study in creative writing, communications, journalism, literature and composition. This course is designed for able and motivated students with a command of standard English, an interest in exploring and analyzing challenging classical and contemporary literature, and a desire to analyze and interpret dominant literary genres and themes. This course is offered to students in Grade 12.

Prerequisite: English 11; AP Language or Honors American Literature highly recommended.

CREDIT: 1 AP credit

**CREATIVE WRITING I (10117100)** - This course is designed to give students the opportunity to experiment with various literary genres and increase their proficiency in written expression. Students will sharpen their writing skills through practice and experimentation, and finally, develop their own style of writing. This course is offered to students in Grades 9 - 12.

Prerequisite: None

CREDIT: 1 standard credit

**CREATIVE WRITING II (10117101)** - This course gives those students who are serious about the development of their creative writing talents an opportunity to fine-tune their skills. Sophistication and maturity in the writing of short stories, plays, and poems will result from the in-depth “practice” in this class. Also, each student will select his/her area of interest in writing and complete a writing portfolio.

Prerequisite: Creative Writing I

CREDIT: 1 standard credit

**SPEECH/DEBATE (10139500)** – This course is an overview of many levels of communication. Basic communication skills as well as public speaking, debate, interpretive reading, and drama are covered and practiced. This course will be offered to students in Grades 9 - 12.

Prerequisite: None

CREDIT: 1 standard credit

**FUNDAMENTALS OF DRAMA (10141000)** –This course will emphasize specific aspects of theatre, including acting, play production, set and costume design and play writing. Through improvisational exercises and scene study, students will explore the fundamentals of acting. In addition, each student will be responsible for writing an original one-act play.

Prerequisite: None

CREDIT: 1 standard credit

**ADVANCED DRAMA (10142000)**– This course is a survey of theatrical forms and practices from the Greeks through modern times. It examines sample plays from Greek, Medieval, Renaissance and Modern theatre. By emphasizing scene study, this course helps students improve the acting and design skills learned in Fundamentals of Drama.

Prerequisite: Fundamentals of Drama and/or recommendation of teacher

CREDIT: 1 standard credit

**DE PUBLIC SPEAKING I (10139502)** – This course examines the elements affecting speech communication at the individual, small group and public communication levels, with emphasis on practice of communication at each level. Offered to students in Grades 11 and 12.

Prerequisite: None

CREDIT: 1 DE credit; 3 college credits

## **Fine Arts**

*NOTE: An apron, sketchbook, art notebook, art box with supplies, and a portfolio are required for all art classes. Fine Arts Night attendance is mandatory of all art students.*

**ART FOUNDATIONS I (10912000)** - This course explores specific aspects of drawing, the elements and principles of design, painting, crafts, and art history. The proper use of tools and materials, and the study of artists and multicultural assignments are also explored.

Prerequisite: Interest in learning about art and becoming acquainted with all the facets of art.

CREDIT: 1 standard credit

**ART FOUNDATIONS II (10913000)** - This course builds on skills developed in Art Foundations I and explores art forms, watercolor painting, pen and ink drawing, crafts, and graphics. Students are encouraged to critique their work, make qualitative judgments as to line, color, structure, balance, and form. The arts in the context of cultural and historical perspectives are stressed. The course is offered to students in Grades 10-12.

Prerequisite: Art Foundations I

CREDIT: 1 standard credit

**ADVANCED ART I (10914000)** - In this course students will create and develop two-dimensional images through a variety of materials and techniques, including charcoal, pencil, pen and ink, and non-traditional media., and will work with subject matter that addresses the human figure, still life, portraiture, nature and architecture. After focusing on core drawing studios, students will develop their portfolios. Appropriate assignments to develop portfolios will be given and sketchbooks will be developed.

Prerequisite: Art Foundations II and teacher recommendation. Students must also exhibit a strong desire to learn and do quality work.

CREDIT: 1 standard credit

**ADVANCED ART II (10914500)** - These courses explore drawing, painting, crafts, and ceramics. Emphasis is placed on art awareness. These courses prepare the student for professional art exhibits and contests. Through field trips, visiting artists, and research reports, the student realizes the importance of multicultural education as a source to art enrichment. The courses also provide concentrated study and demanding project work. Advanced art also allows the student to enhance his talent for future art career opportunities.

Prerequisite: Art II and teacher recommendation. Students must also exhibit a strong desire to learn and do quality work.

CREDIT: 1 standard credit

**CRAFTS (10916000)** - This course is designed for students who have a desire to explore traditional and contemporary crafts. Crafts will involve tie-dye, batik, paper making, and other handmade items.

Prerequisite: A sincere desire to learn about crafts, folk art, recycling and the desire to produce products that are indicative of one's creative ability.

CREDIT: 1 standard credit

**MUSIC APPRECIATION (10922200)** – This course is a study of Western classical music from the Middle Ages through the 20th century, with emphasis on the development of listening skills, musical vocabulary, and a detailed study of various composers.

Prerequisite: None

CREDIT: 1 standard credit

**BEGINNING BAND (10923700)** – This is an instrumental performance ensemble which offers group instruction of woodwind, brass, and percussion instruments. This class teaches the student the basics of music theory, music history and technique on an instrument. Participation in public performances is a requirement of this class. Instruments will be available for purchase or rental from the school.

Prerequisite: None

CREDIT: 1 standard credit

**ADVANCED BAND (10923800)** - This is an instrumental performance ensemble, which offers group instruction of woodwind, brass, and percussion instruments. This class addresses the many aspects of music training, as well as promoting the enjoyment and excellence experienced through musical performance. This is a performing ensemble. Performances include football half-time shows, concerts, parades, and special events. **Marching Band, Fall Wind Ensemble, Symphonic Band, and any outside performances** will be MANDATORY for anyone signing up for this class.

Prerequisite: Completion of Middle School Band, High School Beginning Band, or recommendation of the instructor. Students must have their own instrument and are required to participate in public performances.

CREDIT: 1 standard credit

**JAZZ BAND I (109223403)** – This course is designed to give students an opportunity to play the works of many jazz artists and to develop an appreciation for the origin of the musical form. This course will involve learning jazz melodies and their chord/scale relatives as well as the study of some of the common melodic/rhythmic patterns used in jazz. The ensemble is open to all students on a competitive basis and with the approval of the instructor. An audition is required.

Prerequisite: By audition or teacher recommendation

CREDIT: 1 standard credit

**JAZZ BAND II (10923404)** – This course is designed to give students an opportunity to increase their knowledge of the jazz form and improve their playing, and involves more in-depth study of jazz melodies and their chord/scale relatives as well as the melodic/rhythmic patterns used in jazz. The ensemble is open to all students on a competitive basis and with the approval of the instructor. An audition is required.

Prerequisite: The student should have completed Jazz Band I and be recommended by the teacher after an audition.

CREDIT: 1 standard credit

**GUITAR I (10924500)**– This course is designed for students who are interested in learning to play guitar. The course will include various styles of guitar playing, while teaching the basics of playing by ear, playing while reading music, and performing in a guitar ensemble. The class will also include music appreciation from a guitar viewpoint.

Prerequisite: The student must own a guitar

CREDIT: 1 credit

**GUITAR II (10924502)** – This course is designed for the student who can already play guitar, can read music well and wish to improve their playing. The course will include playing up the fret board, all major, pentatonic and blues scales, barre chords in all positions, finger picking and advanced repertoire.

Prerequisite: The student should have completed Guitar I with an A or B or be recommended by the teacher after an audition. The student must also own a guitar.

CREDIT: 1 standard credit

**CHORUS I (10926000)** – This course is designed for the student who is interested in vocally performing classical, popular, and seasonal music. The course follows the VA SOLs for Performing Arts and includes singing many styles of music with harmony, music reading, writing, and music appreciation from a vocal viewpoint. Classroom instruments are often used as learning aids. The class will sing for the Fine Arts Performances and attendance is MANDATORY. Other performances may be scheduled as requested by the school.

Prerequisite: None

CREDIT: 1 standard credit

**CHORUS II (10926001)** – A more in-depth study of choral music for students who have completed Chorus I and wish to improve their skills in vocal performance.

Prerequisite: Chorus I

CREDIT: 1 standard credit

## **Foreign Languages**

**FRENCH I (10511000)** - This course is a basic introduction to the French language, culture, and grammar. The four basic skills- listening, speaking, reading, and writing are introduced. Emphasis is placed on oral proficiency. The French speaking world is introduced in Level I. This course is offered to students in Grades 9-12.

Prerequisite: “C” in English is highly recommended.

CREDIT: 1 standard credit

**FRENCH II (10512000)** - This course reinforces the four basic skills and places more emphasis on culture. It is a more in-depth study of grammar, increased usage of the language, reading in the target language, and emphasis on the culture in the Francophone countries. This course is offered to students in Grades 9 - 12.

Prerequisite: French I. A grade of “C” or better in French I is highly recommended.

CREDIT: 1 standard credit

**FRENCH III (10513000)** - This course reinforces the four basic skills of reading, writing, listening, and speaking. Also covered are summaries and use of personal ideas in literary concepts, compositions, grammar forms, interpretation, and analysis of grammatical construction, and the meaning of sentences. This course is offered to students in Grades 10 - 12.

Prerequisite: French II. A grade of “C” or better in French II is highly recommended.

CREDIT: 1 standard credit

**FRENCH IV (10514000)** - This course reviews and expands the grammar learned in previous levels in more detail. Conversational and grammar skills are enhanced through cultural studies and literature. This course is offered in Grades 10-12.

Prerequisite: French III. A grade of “C” or better in French III is highly recommended.

CREDIT: 1 standard credit

**GERMAN I (10521000)** - This course consists of a basic introduction to the German language. The four skills: reading, writing, listening, and speaking are incorporated into basic conversational practice, grammar introduction, writing exercises, and vocabulary work. German, Austrian, and Swiss geography and culture are introduced. This course is offered to students in Grades 9 -12.

Prerequisite: A grade of “C” in English is highly recommended.

CREDIT: 1 standard credit

**GERMAN II (10522000)** - This course has more emphasis on culture and includes a more in-depth study of grammar and increased usage of the target language. This course is offered to students in Grades 9 - 12.

Prerequisite: German I. A grade of “C” or better in German I is highly recommended.

CREDIT: 1 standard credit

**GERMAN III (10523000)** - This course continues conversational practice and oral drills. Also covered are summarizations and use of personal ideas in literature concepts, advanced literature stories, compositions, grammar forms, interpretation, and analysis of grammatical construction, and the meaning of sentences. Offered to students in Grades 10 - 12.

Prerequisite: German II. A grade of “C” or better in German II is highly recommended.

CREDIT: 1 standard credit

**GERMAN IV (10524000)** – This course is an in-depth study of conversational skills and grammar through cultural studies. This course is offered to students in Grades 11-12.

Prerequisite: German III. A grade of “C” or better in German III is highly recommended.  
CREDIT: 1 standard credit

**LATIN I (10531000)** - This course is an intensive study of basic Latin grammar and an introduction to Roman culture, mythology, and literature. This course is offered to students in Grades 9 - 12.  
Prerequisite: “C” in English is highly recommended.  
CREDIT: 1 standard credit

**LATIN II (10532000)** - This course is an intensive study of advanced grammatical constructions with further development of reading skills and an understanding of Roman life and thought. This course is offered to students in Grades 9 - 12.  
Prerequisite: Latin I. A grade of “C” or better in Latin I is highly recommended.  
CREDIT: 1 standard credit

**LATIN III (10533000)**- This course covers the speeches and works of Cicero. This course alternates with Latin IV, and is offered to students in Grades 10-12 who have completed Latin II.  
Prerequisite: Latin II. A grade of “C” or better in Latin II or III is highly recommended.  
CREDIT: 1 standard credit

**LATIN IV (10534000)**- This course examines excerpts from Virgil’s *Aeneid*. This course alternates with Latin III and is offered to students in Grades 10-12 who have completed Latin II.  
Prerequisite: Latin II or Latin III. A grade of “C” or better in Latin II or III is highly recommended.  
CREDIT: 1 standard credit

**LATIN V (10535000)** - This course is a study of the orations and letters of Cicero. This course is offered to students in Grades 11 - 12 when demand warrants.  
Prerequisite: A grade of “B” or better in Latin IV is required unless recommended by teacher.  
CREDIT: 1 standard credit

**SPANISH I (10551000)** - This course is a basic introduction to the Spanish language and culture. The four basic skills of listening, speaking, reading, and writing are introduced. Emphasis is on oral proficiency. The culture of Spanish speaking people is emphasized. This course is offered to students in Grades 9 - 12.  
Prerequisite: “C” in English is highly recommended.  
CREDIT: 1 standard credit

**SPANISH II (10552000)** - This course reinforces the four basic skills and continues with oral practice, listening drills, a more in depth grammar study, a review of literature and history, and practice in translation. Continued exposure to culture is emphasized. This course is offered to students in Grades 9 - 12.  
Prerequisite: Spanish I. A grade of “C” or better in Spanish I is highly recommended.  
CREDIT: 1 standard credit

**SPANISH III (10553000)**- This course continues conversational practice and oral drills. Also covered are summarizations and use of personal ideas in literary concepts, advanced literature stories, compositions, grammar forms, interpretation and analysis of grammatical construction, and the meaning of sentences. This course is offered to students in Grades 10 - 12.  
Prerequisite: Spanish II. A grade of “C” or better in Spanish II is highly recommended.  
CREDIT: 1 standard credit

**SPANISH IV (10554000)** - This course reviews and expands the grammar learned in previous classes in more detail. Conversational skills are enhanced through discussion of Hispanic literature read in class. Vocabulary is expanded through reading and conversation activities. This course is offered to students in Grades 11-12.  
Prerequisite: Spanish III. A grade of “C” or better in Spanish III is highly recommended.  
CREDIT: 1 standard credit

**SPANISH V (10555000)** - This course reviews and expands the grammar learned in previous classes in more detail. Conversational skills and vocabulary are enhanced through discussions. Emphasis is on Hispanic literature, history, and culture. This course is offered to students in Grades 11-12.  
Prerequisite: Spanish IV. A grade of “C” or better in Spanish IV is highly recommended.  
CREDIT: 1 standard credit

## **Journalism**

**JOURNALISM I (10120000)** - This is a basic course that teaches the fundamentals of copy writing and editing, layout and design, graphic arts, community relations and advertising, the history of the free press in America, and the definitions of propaganda and plagiarism.  
Prerequisite: None. A grade of “B” or better in English is highly recommended.  
CREDIT: 1 standard credit

**NEWSPAPER JOURNALISM II (10121000)** - This course emphasizes the practical application of skills learned in basic journalism by producing multiple issues of a school newspaper. Emphasis is on news writing, feature writing, and other types of journalistic writing.  
Prerequisite: Journalism I  
CREDIT: 1 standard credit

**NEWSPAPER JOURNALISM III (10121100)** - This course emphasizes the practical application of skills learned in basic journalism by producing multiple issues of a school newspaper. Emphasis is on page design, graphic arts and advertising.  
Prerequisite: Newspaper Journalism II  
CREDIT: 1 standard credit

**NEWSPAPER JOURNALISM IV (10121200)** - This course emphasizes the practical application of skills learned in basic journalism by producing multiple issues of a school newspaper. Emphasis is on editing, proofreading and editorial writing.  
Prerequisite: Newspaper Journalism III  
CREDIT: 1 standard credit

**YEARBOOK JOURNALISM II (10121500)**- This course emphasizes the practical application of skills taught in basic journalism through publishing a yearbook. Emphasis is on feature writing, caption writing, basic page design and photojournalism.  
Prerequisite: Journalism I  
CREDIT: 1 standard credit

**YEARBOOK JOURNALISM III (10121600)**- This course emphasizes the practical application of skills taught in basic journalism through publishing a yearbook. Emphasis is on advanced page design, editing, proofreading, editorial writing, photojournalism and thematic development.  
Prerequisite: Yearbook Journalism II  
CREDIT: 1 standard credit

**PHOTOGRAPHY/PHOTOJOURNALISM (10121503)** - This course teaches the fundamentals of black and white film photography and digital photography. The course will cover making and using a pinhole camera; using 35mm and digital cameras; principles of photo composition; developing black and white film; printing from negatives; organizing, correcting and printing digital photo files; the history of photography; and principles of photographic coverage of news and feature stories for newspapers and yearbooks. The course requires a \$40.00 lab fee to cover film, photographic paper, chemicals for developing and printing film negatives, and photo paper and ink for printing digital files. Students are encouraged to have their own 35mm cameras. However, the department has a limited number of cameras which may be checked out.  
Prerequisite: None. This course is limited to 12 students per section.  
CREDIT: 1 standard credit

**ADVANCED PHOTOGRAPHY (10121504)** – This course is intended for the student who wants to do guided independent work in black and white film and color digital photography. The aim of the course is to produce a portfolio and a number of framed photos for exhibition. There is a \$40 lab fee. Students must have their own digital cameras, but may check out 35mm film cameras from the department.

Prerequisite: Photography/Photojournalism.

CREDIT: 1 standard credit

## **Mathematics**

**ALGEBRA I (10313002)** - Algebra I deals with the language of algebra, operation of integers and rational numbers, as well as an application of rational numbers, polynomials, and factoring. Students will use tables and graphs to solve equations and inequalities, systems of equations in two variables, and functions. Matrices will be used to organize and manipulate data. Graphing utilities will be used to graph linear equations, simplify radical expressions, and extend students' knowledge of statistics. Students will be encouraged to talk about mathematics, communicate with mathematics using the language and symbols, discuss problems and problem solving, and develop confidence in mathematics.

Prerequisite: Students need good math and study skills to keep up with the pace in this class.

CREDIT: 1 standard credit

**ALGEBRA ACADEMY (10319900)** - The Algebra Academy course will provide students additional support in Algebra I. Students are identified for participation based on the results of the Algebra Readiness Diagnostic Test administered in the spring of their 8th grade year. Students would earn a math elective credit for the course. The course will follow the same pace as Algebra I and serve to pre-teach, support, and remediate topics. Students will work on PLATO and additional resources on the computer as well as hands-on activities to differentiate and meet their individual needs. Students will work through an individual plan targeted specifically to their areas of need. The grading for the course is separate from the Algebra I course and is dependent on completion of assignments and proficiency on assessments. This course may be taken by students who are currently enrolled in Algebra I.

Prerequisite: Teacher recommendation

CREDIT: 1 standard credit

**GEOMETRY (10314300)**- Geometry is the next sequence in math after Algebra I. This course provides a basic foundation in formal geometry through the use of definitions, theorems, and postulates in establishing formal proofs and critical thinking skills, while emphasizing the connection between geometry and the physical world. Concepts will include, but are not limited to, parallel lines, angles, circles, polygons, three dimensional figures, area, and volume.

Prerequisite:: A passing grade in Algebra I; Students need good math and study skills to keep up with the pace in this class.

CREDIT: 1 standard credit

**ALGEBRA FUNCTIONS AND DATA ANALYSIS (10313400)** - This course strengthens the math background of students prior to enrolling in Algebra II. This course is designed for students who have successfully completed the standards for Algebra, and it may be taken before or after Geometry. Students will strengthen their conceptual understandings of mathematics and further develop connections between Algebra I and Algebra II.

Prerequisite: Recommendation from math teachers and administration.

CREDIT: 1 standard credit

**ALGEBRA II (10313500)** – This course is designed for students with good math skills who seek the Advanced Studies Diploma. It provides a comprehensive awareness of algebra including a brief review of fundamental techniques learned in Algebra I. It provides a foundation in both linear and abstract algebra along with problem solving, systems, radicals, quadratic equations, matrices, functions and conic sections.

Prerequisite: Geometry with a “C” or better, pass the Algebra I and Geometry SOL tests; or teacher recommendation. Students need good math and study skills to keep up with the pace in this class.

CREDIT: 1 standard credit

**TRIGONOMETRY/PRE-CALCULUS (10316101)** - The Pre-Calculus phase of this course provides an in-depth review of functions and their properties to include graphing; functional combinations; polynomial and rational functions; exponential and logarithmic functions; matrices and determinants and their applications. The Trigonometry phase provides a comprehensive study of Trigonometry to include the six trigonometric functions, their graphs and applications; radian measure; identities and their proofs; inverse functions; and the solution of triangles.

Prerequisite: Algebra II with a grade of “C” or better; pass Algebra II SOL test; or teacher recommendation

CREDIT: 1 honors credit

**AP STATISTICS (10319002)** - This is a first-year statistics course on the college level. It covers descriptive statistics, elementary probability, probability distributions, estimation and hypothesis testing with emphasis on correlation and regression, analysis of variance, chi-square tests, and non-parametric methods.

Prerequisite: Teacher recommendation; Trigonometry/Pre-Calculus highly recommended

CREDIT: 1 AP credit

**AP CALCULUS (10317700)** - This class is a first-year calculus course on the college level. The first half includes topics such as limits, derivatives (both explicit and implicit) and differentials, concavity and points of inflection, anti-derivatives, integrals, and applications. The second half continues with such topics as: applications of the integral to areas and volumes, exponential, and logarithmic functions, function inverses, methods of moments and center of mass.

Prerequisite: Trigonometry/Pre-Calculus. A grade of “B” or better is highly recommended

CREDIT: 1 AP credit

**COMPUTER MATHEMATICS (10318402)** – This math offering involves using the graphing calculator as the primary computing device. The course is considered “above the level of algebra and geometry” and may be used to satisfy a standard unit of credit toward the Standard and Advanced Studies Diplomas. There is no SOL test associated with this course. (SUPTS MEMO No. 184)

Prerequisite: Pass Algebra I SOL test and successfully complete Algebra I

CREDIT: 1 standard credit

## **Physical Education and Health**

**HEALTH AND PHYSICAL EDUCATION I (10730001)** - This course stresses the importance of personal health and fitness as well as nutrition and health. Students learn how to maintain a healthy body system and the importance of being a good consumer health provider. Students are made aware of safety and emergency care needed in case of injuries and accidents and preventing disease. The course emphasizes the importance of physical fitness and learning the skills and the basic fundamentals of sports activities. This course is offered to students in Grade 9.

Prerequisite: None

CREDIT: 1 standard credit

**HEALTH, DRIVER’S AND PHYSICAL EDUCATION II (10740500)**- This course stresses the importance of getting along with others and understanding your self as it deals with good mental health. It elaborates on the effects that drugs, tobacco, and alcohol have on the individual and society. It further emphasizes the importance of family and social health. The course explains the importance of getting ready to drive, driving for safety, the driving environments, driver responsibilities, and owner responsibilities. It covers the importance of physical fitness, skills, and fundamentals in sports activities. This course is offered to students in Grade 10.

Prerequisite: None

CREDIT: 1 standard credit

**ADVANCED PHYSICAL EDUCATION (10764000)** - This course stresses the importance of understanding social issues of the community. It elaborates on the effects that drugs and drug abuse have on the individual and the society. It expands on health careers. It also explains the importance of physical fitness and conditioning, skills,

strategies, and formations in sports activities. This course is offered to students in Grades 11-12.

Prerequisite: Health and PE I, II

CREDIT: 1 standard credit

**WEIGHT TRAINING AND CONDITIONING (10764001)** - The purpose of this course is to use weight training as a method of improving body development and sports performance based on each student's ability. Systematic weight training that applies principles of resistance, overload, and specificity will have positive effects on motor performance parameters and contribute to successful participation in sports. This course also offers mechanical aspects of conditioning which will involve selected positions and movements found in everyday and sport activities such as standing, sitting, walking, lifting, pulling, pushing, running, jumping, throwing, catching, and striking. This course will be offered to both male and female students. This course is offered to students in Grades 11 - 12.

Prerequisite: Health and PE I, II.

CREDIT: 1 standard credit

**MEDICAL SCIENCE (10763002)** –This is a preparatory course for anyone interested in a career in health care. Included in the study will be an overview of medical terminology and abbreviations, history of medicine, health care occupations (primary care and allied health care professionals), ethical and legal responsibilities, basic Anatomy and Physiology, safety and prevention of injury and disease, physical assessments, communication, and proper record keeping.

Prerequisite: Must be in grade 11 or 12

CREDIT: 1 standard credit

**SPORTS MEDICINE (10763001)** – This is a preparatory course for anyone who wants to pursue a career in sports medicine or its related fields. Included will be a study of medical terminology, prevention of injury/disease, emergency management, patient assessment, rehabilitation from injury/disease, and medical careers as related to Sports Medicine and their required professional development.

Prerequisite: Must be in grade 11 or 12; Anatomy and Physiology.

CREDIT: 1 standard credit

## **Science**

**EARTH SCIENCE (10421000)** - This course is a study of the air, water, and land regions of the Earth and its place in the universe. Investigations are mainly conducted within the class period. Reading and study skills are stressed and the practical applications of knowledge about the earth are emphasized. This course is offered to students in grades 9- 10.

Prerequisite: None

CREDIT: 1 standard credit

**HONORS EARTH SCIENCE (104421002)** - This course is an intensive study of major geological processes that affect dramatic changes in the Earth's surface. Students will utilize critical thinking skills to develop simulations of real world applications. Issues or case studies will be researched, whereby, students will develop an experimental design to collect and analyze data. Scientific journals will be kept as guides to monitor comparisons and contrasts throughout the world of these events. Laboratory investigations will incorporate field studies of scientific principles. Reading selections will be suggested as additional background information on subject.

Prerequisite: A grade of "B" or above in middle school science is highly recommended.

CREDIT: 1 honors credit

**GEOLOGY (10424000)** - This course is an investigative study of physical and historical geological processes that create catastrophic disasters, dynamic complex global changes to the earth. Case studies include qualitative and quantitative analysis of environmental and global issues caused by geological differences found within the earth's interior.

Prerequisite: Earth Science. A grade of "C" or better is highly recommended.

CREDIT: 1 standard credit

**BIOLOGY (10430500)** - This course is a survey of living organisms. The course gives emphasis to classification, cell structure and function, genetics, and evolution theory. Also included are the six kingdoms, systems of the human body, and ecology. This course is offered to students in Grade 10.

Prerequisite:: None

CREDIT: 1 standard credit

**Pre-AP BIOLOGY (10431004)** - This course is an in-depth study of major biological concepts which will enable students to better understand the world around them. Major concepts such as the environment, the cell, metabolism, growth, and genetics will be emphasized. A deeper understanding of human life and other life forms will be emphasized. How the environment and organisms interact will be explored at all levels. Students will be required to keep a detailed laboratory notebook which will contain hypothesis, observations, and conclusions. Students will use the scientific method to learn more about scientific principles.

Prerequisite: A grade of “B” or above in previous science classes is highly recommended.

CREDIT: 1 honors credit

**ADVANCED SURVEY OF BIOLOGY TOPICS (10432000)** – This course is organized into three parts. Part One explores “Life in the Sea.” Topics are selected from Marine Biology and include marine organisms, the principles of marine ecology, estuaries and coral reefs. Part Two explores “Terrestrial and Freshwater Biology.” Topics are selected from Invertebrate and Vertebrate Biology. Part Three explores “It’s a Small World.” Topics are selected from Parasitology, Microbiology, and Bacteriology. Laboratory investigations will include some fieldwork.

Prerequisite: A grade of “C” or better in Biology is highly recommended.

CREDIT: 1 standard credit

**AP BIOLOGY (10437000)** – This course is an equivalent college-level introductory organismal biology course, designed to be taken by students who have successfully completed a first course in high school biology and high school chemistry. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing field of biology. Descriptive and experimental laboratory exercises will be assigned. Students are required to keep a detailed lab notebook, submit written lab reports, and conduct field studies. Dissections are required. Students are expected to prepare for and take the AP Biology exam at the end of the course.

Prerequisite: A grade of C or better in Pre-AP Biology is highly recommended.

CREDIT: 1 AP credit

**GENERAL CHEMISTRY (10441011)** - The course will serve as an introduction to atoms, molecules and bonding. Topics of discussion include but not limited to the discussion of petrochemicals, plastics, fibers, body chemistry, foods, drugs, and poisons. Students will also study the chemistry involved in air and water pollution. Chemical and nuclear energy will also be discussed.

Pre-requisites: Algebra, Geometry, and Algebra II (completed or concurrently enrolled)

CREDIT: 1 standard credit

**Pre-AP CHEMISTRY (10441009)** – This is a fast-paced course designed for advanced science students. It will provide an intensive study of the basic concepts of chemistry with special emphasis on acid-base chemistry, thermochemistry, kinetics, bonding atomic structure and periodicity. A strong problem-solving approach is utilized.

Prerequisite: Biology and Algebra II with a grade of “C” or better

CREDIT: 1 honors credit

**AP CHEMISTRY (10447000)** - This course is geared toward highly motivated students with interests in chemical and physical sciences. AP Chemistry builds on concepts covered in a regular chemistry course, using greater detail in concept exploration and lab investigation. Topics include atomic theory, chemical bonding, phases of matter, solutions, types of reactions, equilibrium, reaction kinetics, and thermodynamics.

Prerequisite: Pre-AP Chemistry with a grade of C or better is highly recommended.

CREDIT: 1 AP credit

**ANATOMY AND PHYSIOLOGY (10462002)** – This course is designed to provide students with an in-depth

study of the structure and function of the human body. The skeletal, muscular, circulatory, digestive, excretory, nervous and endocrine systems are included. We will examine the tissues that make up organs, the functions of these organ systems, and how the human body is constructed to allow motion and activity. A research paper and dissections are required.

Prerequisite: A grade of “C” or better in Biology

CREDIT: 1 standard credit

**PHYSICS (10451001)** - This course is designed to include studies of measurement, motion, work energy and transformations between them; kinetics, dynamics, waves, light and its properties; electricity, magnetism, nuclear reactions, and subatomic physics. This course is offered to students in Grades 10-12. This course is required for Commonwealth Scholars.

Prerequisite: Students must have completed or be enrolled in Trigonometry.

CREDIT: 1 standard credit

## **Social Studies**

**WORLD HISTORY I (10234000)** - In this course, students will analyze and evaluate the impact of the Greeks and Romans on the development of Western Europe. Students will explore the fall of the Roman Empire, the rise of feudal society, and the impact of the Viking invasions during the Middle Ages. This course includes the study of the origins, traditions, customs, beliefs, and the spread of world religions such as Christianity, Islam, Judaism, Buddhism, and Hinduism prior to 1500 A.D. This course is offered in Grade 9.

Prerequisite: None

CREDIT: 1 standard credit

**Pre-AP WORLD HISTORY I (10234008)** - In this course students are expected to complete summer reading and writing assignments and to write in a variety of forms, including expository and historical narrative. This course is taught in conjunction with Honors World Literature I. Students will analyze and evaluate the impact of the Greeks and Romans on the development of Western Europe. Students will explore the fall of the Roman Empire, the rise of feudal society, and the impact of the Viking invasions during the Middle Ages and the Renaissance. The course includes the study of the origins, traditions, customs, beliefs, and spread of world religions such as Christianity, Islam, Judaism, Buddhism, and Hinduism prior to 1500 A.D. Students will demonstrate skills in historical research and the use of primary and secondary resources as well as the use of the MLA guidelines in writing formal papers. This course is offered to students in Grade 9.

Prerequisite: A “B” or above in prior social studies; pass 8th Grade Reading SOL test; above average reading ability

CREDIT: 1 honors credit

**WORLD HISTORY II (10234003)** - This course is a comprehensive survey of World History from 1500 A.D. to the present, with emphasis on Western Europe and its impact on the non- Western world. Students will examine the history, literature, art, architecture, music, and philosophy of western civilizations beginning with the Renaissance. In addition, the course will examine the rise of nation-states, the Scientific Revolution and the Industrial Revolution, World War I, World War II, and the Cold War. The students will demonstrate skills in historical research by identifying, analyzing, and interpreting primary and secondary sources. Offered to students in Grade 10.

Prerequisite: World History I

CREDIT: 1 standard credit

**Pre-AP WORLD HISTORY II (10234007)** - This course is a comprehensive survey of World History from 1500 A.D. to the present, with emphasis on Western Europe and its impact on the non- Western world. Students will examine the history, literature, art, architecture, music, and philosophy of western civilizations beginning with the Renaissance. In addition, the course will examine the rise of nation-states, the Scientific Revolution and the Industrial Revolution, World War I, World War II, and the Cold War. The students will demonstrate skills in historical research by identifying, analyzing, and interpreting primary and secondary sources. This course is offered to students in Grade 10.

Prerequisite: A “B” or above in Pre-AP World History I; above average reading ability

CREDIT: 1 honors credit

**VIRGINIA AND UNITED STATES HISTORY (10236000)** - This course encompasses the development of American ideals and institutions through the study of major events, eras, cultures, nationalities, and personalities of Virginia and United States history from the age of exploration to the modern era. The historical development of the Declaration of Independence, the Constitution of the United States, the Virginia Declaration of Rights, the Virginia Statute of Religious Freedom, and basic principles inherent in these documents are examined and related to everyday life. This course is offered to students in Grade 11.

Prerequisite: World History is highly recommended

CREDIT: 1 standard credit

**AP VIRGINIA AND UNITED STATES HISTORY (10231900)** - The AP US History course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in US History. It reflects the content of an introductory college course in US History and is based on survey data from more than 100 colleges and universities. Students will be expected to take the AP US History exam at the conclusion of the course. This course is offered to students in Grade 11.

Prerequisite: Pre-AP World History II recommended

CREDIT: 1 AP credit

**VIRGINIA AND UNITED STATES GOVERNMENT (10244000)** - This course examines the basic structures of government and basic documents, including the Constitution of the United States, the State Constitution, and other historical documents. The decision-making processes at the local, state, national, and international levels are emphasized.

Prerequisite: VA and U.S. History

CREDIT: 1 standard credit

**DE UNITED STATES GOVERNMENT (10244000)** - Seniors will study the political, economic, and legal systems that govern our nation as well as the interdependence of the United States as part of the global community. The basic principles of American social, economic, and political institutions will be covered. Emphasis is given to the structure and government of the federal, state, and local branches of government. A critical component of the class will be the students' ability to analyze historical and political concepts.

Prerequisite: A grade of "B" or above in VA & U.S. History is highly recommended; excellent reading and writing skills. SVCC requires that students take and pass the college's placement test.

CREDIT: 1 DE credit; 6 college credits

**DE INTRODUCTION TO CRIMINAL JUSTICE (10870200)**– This course will begin with a look back at early systems and how they developed into the complex, political, and social institutions of today. The course will examine the development of the rule of law as a social objective, which, to some degree, we have yet to attain. The course will introduce the student to the legal concepts of the substantive and procedural law, and how they affect our daily lives. Finally, the course will look at the structure of the criminal justice system in America as an institution seeking new ways to accomplish its newly redefined role in society.

Prerequisite: Must be a Junior or Senior with a GPA of at least 2.0

CREDIT: 1 DE credit; 2 college credits

**PSYCHOLOGY (10290000)** – This course explores the field of psychology. Topics covered include sensation/perception, learning, intelligence, human development, theories of personality, psychological disorders, and stress. All students are required to complete a research paper. This course is offered to students in grades 11 and 12.

Prerequisite: None

CREDIT: 1 standard credit

## **Agricultural Education**

*All program completers, including students in Special Programs, are eligible for a mathematics credit in the Standard Diploma curriculum.*

*In order to be considered an Agriculture vocational sequence completer, the student must complete Agriculture I, II, III or Agriculture I, II and Horticulture III or Horticulture III, IV and V.*

**AGRICULTURAL MECHANICS AND BASIC PLANT SCIENCE I (10800600)** - Approximately one-half of the course is devoted to agricultural mechanics with emphasis placed on skill development in basic metals, tool fitting, cold metals, electricity, arc welding, sheet metal work, soldering, brazing, mechanical drawing, plan reading, and hand wood-working. Emphasis is also placed on the development of competencies in plant science, leadership development, and forestry. Hunter education by an instructor certified by the Virginia Department of Game and Inland Fisheries is included in this course. Certification and experience in lawn mowers and tractors is also included.

Prerequisite: None

CREDIT: 1 standard credit

**AGRICULTURAL MECHANICS AND BASIC ANIMAL SCIENCE II (10800800)** - This course includes instruction in power woodworking, arc welding, use of oxyacetylene equipment, small engine troubleshooting, and fundamentals of electricity. Students will construct projects in the agricultural mechanics shop. Emphasis will be placed on safety and operational procedures for all equipment. Units will be taught in the areas of leadership development and animal science. Experience and certification in fork lift operation is included.

Prerequisite: Agricultural Mechanics and Basic Plant Science I

CREDIT: 1 standard credit

**AGRICULTURE PRODUCTION TECHNOLOGY III (10801600)** - This course emphasizes one or more areas of plant science, animal science, soil science, agricultural business management, and agricultural mechanization, based upon the student's employment objective. Supervised occupational experience programs and leadership training are important parts of the course. When only single periods are provided, greater emphasis is placed on individualized instruction and supervised occupational experience programs. This course is offered to students in grades 10 and 11.

Prerequisite: Ag II

CREDIT: 1 standard credit

**AGRICULTURAL PRODUCTION MANAGEMENT IV (10801800)** - This course is more advanced and includes instruction in agricultural mechanics; with emphasis placed on the application of mechanical skills to farm power and machinery, soil and water management, supervised farming programs, and leadership training. This course is offered to students in grades 11 and 12.

Prerequisite: Ag III

CREDIT: 1 standard credit

**HORTICULTURE III (10803400)** - Horticulture is designed to prepare students for employment in horticulture and related occupations. In this course, students learn basic greenhouse operation and management plus plant production and marketing skills. The students will have the opportunity to apply the knowledge and skills learned in the classroom. FFA and leadership development will be emphasized. A keen interest in working with fruit, vegetables, flowers, and landscaping is needed. This course is offered to students in Grades 9-12.

Prerequisite: None

CREDIT: 1 standard credit

**HORTICULTURE IV (10803600)** – In this course, students develop the necessary knowledge, skills, habits, and attitudes for entry-level employment and advancement in areas such as landscape design, landscape construction, and landscape maintenance. They receive instruction in sketching and drawing, analyzing a landscape site, designing for function and aesthetics, identifying and selecting landscape plants, purchasing and installing plants, and maintaining the landscape by watering, fertilizing, mulching, pruning, and controlling pests.

Prerequisite: Horticulture III

CREDIT: 1 standard credit

**HORTICULTURE V (10803800)**– Students learn the basics of the horticulture plant production industry. Instruction includes the science of plant production as well as marketing and business management. Plant material identification and floral design round out this course to prepare the student for an entry-level position in the floriculture industry. Participation in FFA activities provides leadership development opportunities.

Prerequisite: Horticulture IV

CREDIT: 1 standard credit

**AGRIBUSINESS (10802600)** - The purpose of this course is to introduce Agribusiness students to plants, their growth, morphology, plants, soil and water relations and energy conversions. This course will also introduce students to plant science, ecology, plant morphology, plant and soil relations and energy conversions. Students will survey agricultural crops and their applications to the agricultural economy. Students will also be introduced to the science and technology involved in sustainable animal production and management practices. Students will study beef, sheep, horses, dairy, swine, goats, and poultry included with an emphasis on practical experiences in laboratory and farm settings.

CREDIT: 1 DE credit

## **Air Force Junior ROTC**

The AFJROTC Program length is four courses. Curriculum for each course consists of two parts: Leadership Education and Aerospace Science, and revolves around these basic themes: leadership, aviation, national defense, and careers. Leadership Education approximately one half of each course (including 20 percent wellness/physical activity) with emphasis on management, creative thinking, problem solving, communications, and cadet corps organization. Drill, uniform wear, and grooming requirements are a major part of Leadership Education and are required to pass each course.

The second half of each course's curriculum is Aerospace Science (including 20 percent wellness/physical activity) which integrates social studies, physical sciences and mathematics and their application to Aerospace. The program's overriding goal is to provide an introduction to the scientific and technical aspects of aerospace, while instilling in the cadets a sense of discipline, responsibility, and citizenship.

Operable weapons are not a part of AFJROTC, but replica or demilitarized weapons may be used for drill teams. No military obligation results from AFJROTC. All students must make a \$20.00 uniform cleaning deposit during the first week of their course. This deposit is held by the school until a clean uniform is returned at the end of the semester. There are no other course fees or charges. Out of class activities are encouraged but are not required.

**AFJROTC I (10791001)** – First year deals with the basic principles of military life. During this course the cadets will: demonstrate proper wear of the Air Force uniform; participate in drill and demonstrate basic military protocol; learn about the history of the US flag and associated customs and courtesies; learn how our Democratic form of government evolved; study physical fitness and first aid; learn about the origins of flight; study the development of aviation and learn how that development affected the military.

Prerequisite: None

CREDIT: 1 standard credit

**AFJROTC II (10791301)** – Second year focuses on leadership and communication skills. During this course the cadets will: demonstrate proper wear of the Air Force uniform; participate in drill and demonstrate basic military protocol; study written and oral communication skills; learn effective listening skills; study human dynamics and learn how they affect team building; learn about personal and group motivation; study sexism and prejudice and learn how they affect group interactions; study basic leadership principles; learn about weather and weather forecasting; study the human requirements of flight; study basic aeronautical principles and learn the basics of navigation and complete navigation exercises.

Prerequisite: AFJROTC I

CREDIT: 1 standard credit

**AFJROTC III (10791601)** – Third year highlights the military as a career experience. During this course the cadets will: demonstrate proper wear of the Air Force uniform; participate in drill and demonstrate basic military protocol; study written and oral communication skills; learn about continuing education opportunities after high school; learn how to apply to and fund post high school education; study the process of gaining employment after high school; study financial planning and basic banking; learn about citizen responsibilities; study the space environment and human requirements for space travel; learn about propulsion, orbits, space trajectories and the geometry of space rendezvous; study selected space programs and the associated technology; learn about the legal aspects of space exploration.

Prerequisite: AFJROTC II  
CREDIT: 1 standard credit

**AFJROTC IV (10791801)** - Fourth year is the application of leadership and advanced management techniques. During this course the cadets will study advanced management and leadership techniques and apply them while training cadets in JROTC I, II and III. Fourth year cadets work closely with JROTC instructors to manage detachment activities throughout the school year.

Prerequisite: AFJROTC III and recommendation of the SASI  
CREDIT: 1 standard credit

**AFJROTC SUMMER LEADERSHIP SCHOOL (10791802)** – Summer leadership school is a one week summer leadership opportunity for AFJROTC cadets. The school will hone leadership skills to prepare cadets for increased responsibility as staff members of VA-931. Cadets will learn teamwork, boost self confidence, and build self-esteem while working with JROTC cadets from other units. Leadership school will consist of at least 60 hours of instruction in drill, protocol, and leadership.

Prerequisite: AFJROTC I, recommendation of SASI, and commitment to return to AFJROTC during the following academic year  
CREDIT: .5 standard credit

## **Business Education**

*All program completers, including students in Special Programs, are eligible for a mathematics credit in the Standard Diploma curriculum. In order to be considered a Business vocational sequence completer, the student must complete any three Business courses.*

**PRINCIPLES OF BUSINESS AND MARKETING (10611600)** - Students explore the roles of business and marketing in the free enterprise system and global economy. They study how the American economy operates and prepare to make decisions as consumers, wage earners, and citizens. This course is offered to students in Grades 9-12.

Prerequisite: None  
CREDIT: 1 standard credit

**KEYBOARDING APPLICATIONS (10615100)** - Students develop or refine touch skills for entering alphabetic, numeric, and symbol information on a keyboard. Students apply keyboarding skills to produce a variety of personal and business documents. This course is offered to students in Grades 9-12.

Prerequisite: None  
CREDIT: 1 standard credit

**BUSINESS LAW (10613100)** - This course incorporates economic and social concepts as they relate to laws affecting businesses and individuals. Course topics include contracts; bailments; employment; property, sales, and insurance laws; business organization; commercial paper; bankruptcy; agencies and trusts; and business law careers. Students examine the foundations of the American legal system. Offered to students in Grades 11-12.

Prerequisite: None  
CREDIT: 1 standard credit

**ECONOMICS AND PERSONAL FINANCE (10612001)** - Instruction in economics and personal finance prepares students to function effectively as consumers, savers, investors, entrepreneurs and active citizens. Students learn how economies and markets operate and how the United States' economy is interconnected with the global economy. On a personal level, students learn that their own human capital (knowledge and skills) is their most valuable resource. Students explore many facets of financial decision-making involved in daily life. Skills in money management, record keeping, and banking are enhanced through the study of basic concepts of economics, insurance, credit, and other related topics. This course is open to students in Grades 9 -12. Beginning with the

entering freshman class in the fall of 2010, this course is required for graduation.

Prerequisite: None

CREDIT: 1 standard credit

**NOTETAKING (10624100)** - Students learn an easy, abbreviated writing system of note taking that enables them to take and transcribe notes for educational, business, or personal use. Students explore reasons for taking notes, ways to listen effectively, and strategies for improving communication and study skills for academic success. Notetaking is open to students in Grades 9-12.

Prerequisite: None

CREDIT: 1 standard credit

**ACCOUNTING (10632000)** - Students study the basic principles, concepts, and practices of the accounting cycle. Students learn fundamental accounting procedures using manual and electronic systems. This course is offered to students in Grades 10-12.

Prerequisite: None

CREDIT: 1 standard credit

**ADVANCED ACCOUNTING (10632100)** - Students gain in-depth knowledge of accounting procedures and techniques utilized in solving business problems and making financial decisions. They use the calculator, computer, and accounting software, with emphasis on electronic spreadsheets to analyze and interpret business applications. This course is offered to students in Grades 11-12.

Prerequisite: Accounting

CREDIT: 1 standard credit

**COMPUTER INFORMATION SYSTEMS (10661201)** - Students apply problem solving skills to real-life situations through (a) database, spreadsheets, and word processing software; (b) charting; and (c) integrated activities. They work individually and in groups to explore data/telecommunications, operating systems, and basic networking principles. This is a dual enrollment class offered to students in Grades 11-12.

Prerequisite: Keyboarding Applications

CREDIT: 1 DE credit; 4 college credits

**ADVANCED COMPUTER INFORMATION SYSTEMS (10661300)** - Students apply problem-solving skills to real-life situations through advanced integrated software applications, including printed, electronic and Web publications. Students work individually and in groups to explore advanced computer maintenance activities, Web site development, programming, networking, emerging technology, and employability skills. This is a dual enrollment class offered to students in Grades 11-12.

Prerequisite: CIS

CREDIT: 1 DE credit; 4 college credits

**OFFICE ADMINISTRATION (10662100)** - Students enhance word processing and communication skills as they develop competencies needed by administrative support professionals. Students study office procedures such as electronic calculation, records management, telecommunications, machine transcription, and business communications. Students participate in job training (shadowing) to gain real office experience. This course is offered to students in Grades 10-12.

Prerequisite: Keyboarding Applications

CREDIT: 1 standard credit

**WORD PROCESSING (10662501)** - Students develop intermediate to advanced word processing skills using a variety of software functions, including graphics. Students gain competence integrating other applications such as spreadsheets into word processing activities. Classroom experiences also provide for skill development in communication. This course may include on-the-job training. This is a dual enrollment class.

Prerequisite: Keyboarding Applications

CREDIT: 1 DE credit; 4 college credits

**DESIGN, MULTIMEDIA, AND WEB TECHNOLOGIES (10663000)** – Students develop proficiency in creating desktop publications, multimedia presentations/projects, and Web sites using industry standard application software. Students incorporate principles of layout and design in completing publications and projects. 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. This course is offered to students in Grades 10-12.

Prerequisite: Keyboarding Applications or teacher-approved demonstration and documentation of touch keyboarding skills recommended

CREDIT: 1 standard credit

**MEDICAL SYSTEMS ADMINISTRATION (10673000)**- Students explore a career as an administrative medical assistant. Receptionist duties; telephone procedures; appointment schedules; patient records; medicolegal responsibilities; filing; office maintenance and management; office communications; processing mail; travel arrangements; drugs and prescriptions; fees, credit and collection; banking; bookkeeping; payroll procedures; accident and health insurance; computers and information processing are incorporated in the course. This course is offered to students in Grades 11-12.

Prerequisite: Keyboarding Applications

CREDIT: 1 standard credit

## **Health Occupations**

*All program completers, including students in Special Programs, are eligible for a mathematics credit in the Standard Diploma curriculum. In order to be considered a Health Occupations vocational sequence completer, the student must complete Introduction to Health Occupations, Nurses Aide I, II, III and IV.*

**INTRODUCTION TO HEALTH OCCUPATIONS (10830200)** - 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. The course is offered to students in Grades 9-12.

Prerequisite: None

CREDIT: 1 standard credit

**NURSES AIDE I (10836000)** - Nurse Aide I, offered as an occupational preparation course beginning at the 11th-grade level, emphasizes the study of nursing occupations as related to the health care system. Students study normal growth and development, simple body structure and function, and medical terminology and are introduced to microbes and disease. They receive elementary skill training in patient-nursing assistant relationships; taking and recording of vital signs; cardiopulmonary resuscitation; and bathing, feeding, dressing, and transporting of patients in hospitals and nursing homes. Limited on-the-job instruction in nursing homes and hospitals is part of the course. Students must be dressed in uniforms and perform satisfactorily to receive course credit. This class is a dual enrollment class.

Prerequisite: A grade of “C” or above in Introduction to Health Occupations; students must complete an application and be accepted in the program; CPR certification is required.

CREDIT: 1 standard credit

**NURSES AIDE II (10836200)** - Nurse Aide II is an occupational preparation course, emphasizing advanced skill training in areas such as catheter care, range of motion, bowel and bladder training, care of the dying, selected procedures for maternal and infant care, and admission and discharge procedures. Students learn diseases and body systems as related to advanced clinical care of the acute medical-surgical patient, the chronically ill, and the elderly. On-the-job instruction in a licensed nursing home is part of the course. Upon completion of the nurse aide program, the student is eligible to take the nurse aide certification exam that leads to employment as a certified nurse aide in hospitals and nursing homes. This class is a dual enrollment class.

Prerequisite: Nurses Aide I

CREDIT: 1 DE credit

**NURSES AIDE III (10839500)** – Course content is directed toward clinical on-the-job training and preparation for the state board exam. Required clinical experience is provided in a licensed nursing home. Additional clinical experience is provided in school clinics

and special needs classes. This class is a double-block class with Nurses Aide IV, below. Students must be dressed in uniforms and perform satisfactorily to receive course credit. It is mandatory that students take the State Board Competency exam upon completion of this class. The exam will be paid for by the school board for the first test. This course is offered to students in Grades 11-12.

Prerequisite: Introduction to Health Occupations, Nurses Aide I,II

CREDIT: 1.5 DE credits

**NURSES AIDE IV (10839600)** – Course content is directed toward clinical on-the-job training and preparation for the state board exam. Required clinical experience is provided in a licensed nursing home. Additional clinical experience is provided in school clinics and special needs classes. This class is a double-block class with Nurses Aide III. Students must be dressed in uniforms and perform satisfactorily to receive course credit. It is mandatory that students take the State Board Competency exam upon completion of this class. The exam will be paid for by the school board for the first test. This course is offered to students in Grades 11-12.

Prerequisite: Introduction to Health Occupations, Nurses Aide I/II

CREDIT: 1.5 DE credits; 10 college credits on completion of the sequence

**EMERGENCY MEDICAL TECHNICIAN-BASIC (10833300)** – This course prepares students for certification as a Virginia and National Registry EMT-Basic. It includes all aspects of pre-hospital basic life support as defined by the Virginia Office of Emergency Medical Services curriculum for Emergency Medicine Technician Basic. It must be taken along with **CARDIOPULMONARY RESUSCITATION**, which provides training in coordinated mouth-to-mouth artificial ventilation and chest compression, choking, life-threatening emergencies, and sudden illness.

Prerequisite: Must be at least 16 years old

CREDIT: 1 standard credit; 6 credit hours in EMS and 1 credit hour for HLT/CPR

**FIRE SCIENCE TECHNOLOGY (10870500)**– This course prepares students for certification as a Virginia Firefighter Level I. It covers all aspects of firefighting and emergency response in accordance with National Fire Protection Association. It must be taken along with **CARDIOPULMONARY RESUSCITATION**, which provides training in coordinated mouth-to-mouth artificial ventilation and chest compression, choking, life-threatening emergencies, and sudden illness.

Prerequisite: Must be at least 16 years old

CREDIT: 1 standard credit; 6 credit hours in FST and 1 credit hour for HLT/CPR

## **Trade and Industrial Education**

*All program completers, including students in Special Programs, are eligible for a mathematics credit in the Standard Diploma curriculum. In order to be considered an Auto Servicing vocational sequence completer, the student must complete Auto Servicing I, II, III, IV and V.*

**AUTO SERVICING I (10871000)** - This course offers instruction in the theory and manipulative skills necessary for employment as an automotive repairer employed in a service station or mass retailer automotive department. Instruction will include simple troubleshooting and replacement of components relating to the lubrication, cooling, fuel, exhaust, ignition, suspension, and steering systems. This course is offered to students in Grades 10-12.

Prerequisite: None

CREDIT: 1 standard credit

**AUTO SERVICING II (10871100)** - In this course, students learn all aspects of repair, safety, and customer service by concentrating on four primary areas: brakes, steering and suspension, electrical/electronics, and engine performance. Students will get a taste of real-world scenarios while being encouraged to enter into postsecondary education opportunities.

Prerequisite: Successful completion of Auto Servicing I. This course is taught concurrently with Auto Servicing III.

CREDIT: 1 standard credit

**AUTO SERVICING III (10871200)** - This course offers continued instruction in basic theory and manipulative skills required for service station or mass retailer automotive departments. Instruction is given in basic troubleshooting and component replacement in transmissions, engines, and the emission control, charging, starting, electrical, air conditioning, and heating systems. State inspection procedures are also taught. Taught concurrently with Auto Servicing II.

Prerequisite: Successful completion of Auto Servicing I

CREDIT: 1 standard credit

**AUTO SERVICING IV(10871300)** - This course is designed to present classroom and laboratory experiences in all phases of automotive maintenance, diagnosis, and repair. Instruction emphasizes those skills required for job entry level as a general automobile mechanic. Theory and manipulative skills instruction is given for the repairing or component replacement in the cooling, lubrication, fuel and exhaust, braking, ignition, suspension and steering, emission control, charging and starting, electrical, and air conditioning systems. Emphasis is also placed on the repairing or component replacement in transmissions and engines. State inspection procedures are also continued from Auto Servicing III. This course is taught concurrently with Auto Servicing V.

Prerequisite: Successful completion of Auto Servicing II,III

CREDIT: 1 standard credit

**AUTO SERVICING V (10871400)** - This course is designed to present classroom and laboratory experiences in all phases of automotive maintenance, diagnosis, and repair. Instruction emphasizes those skills required for job entry level as a general automobile mechanic. Theory and manipulative skills instruction is given for the repairing or component replacement in the cooling, lubrication, fuel and exhaust, braking, ignition, suspension and steering, emission control, charging and starting, electrical, and air conditioning systems. Emphasis is also placed on the repairing or component replacement in transmissions and engines. This course is taught concurrently with Auto Servicing IV.

Prerequisite: Successful completion of Auto Servicing II,III

CREDIT: 1 standard credit

*In order to be considered a Building Trades vocational sequence completer, the student must complete Building Trades I, II and III.*

**BUILDING TRADES I (10851500)** - Building Trades I prepares students to erect, install, maintain, and repair buildings, and other structures using materials such as metal, wood, stone, brick, glass, concrete and composition substances. Students focus on developing skills in core safety and the masonry, carpentry, electricity, and plumbing professions. . This course is offered to students in Grades 9-11.

Prerequisite: None

CREDIT: 1 standard credit

**BUILDING TRADES II (10851600)** - This is a job preparatory course. Building Trades II continues to prepare students to erect, install, maintain, and repair buildings, and other structures using materials such as metal, wood, stone, brick, glass, concrete, and composition substances. Students focus on mastering skills in core safety and the masonry, carpentry, electricity, and plumbing professions. This course is offered to students in Grades 10-12. Taught concurrentl with Building Trades III.

Prerequisite: Successful completion of Building Trades I

CREDIT: 1 standard credit

**BUILDING TRADES III (10851700)** - This is a job preparatory course. This course prepares the students to select a trade from the areas of residential framing, electrical wiring, and masonry. Each course experience is in direct relation to the student's chosen area of occupation. This course completes the vocational sequence that is required for full credit This course is offered to students in Grades 10-12. Taught concurrently with Building Trades II.

Prerequisite: Successful completion of Building Trades I

CREDIT: 1 standard credit

*In order to be considered a Carpentry vocational sequence completer, the student must complete Building Trades I and Carpentry I and II.*

**CARPENTRY I(10851709 )** - This course provides an advanced skill development in residential construction and cabinet making. The course will be offered to students in Grades 10-12. Taught concurrently with Carpentry II.

Prerequisite: Successful completion of Building Trades I.

CREDIT: 1 standard credit

**CARPENTRY II (10851710)** - Carpentry II completes students' secondary training for the carpentry profession. Students study blueprints; build and install foundations, trusses, doors, windows, stairs, and finishes; and frame walls, floors, ceilings, roofs, decks, and porches. In addition, students are introduced to basic rigging, learn to estimate and select building materials, and install cabinets. The cooperative education method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. Taught concurrently with Carpentry I.

Prerequisite: Successful completion of Building Trades I.

CREDIT: 1 standard credit

*In order to be considered a Computer Assisted Drafting vocational sequence completer, the student must complete CAD I, II, III, IV and V.*

**COMPUTER ASSISTED DRAFTING I (10853000)** - This course provides students an opportunity to gain knowledge in the basic use of industry, technology, mechanical drafting, and use of computer drafting software. The course is especially recommended for future engineering, architecture, or technology students. This course is offered to students in Grades 10 -12. A solid math background is recommended.

Prerequisite: None

CREDIT: 1 standard credit

**COMPUTER ASSISTED DRAFTING II (10853100)** - Students master the theory and the manipulative skills necessary to produce complete and accurate drawings based on the ideas and sketches of engineers, architects, and designers. They design and prepare mechanical, structural, and architectural plans, electronics, transmitters, power supplies, and receivers relevant to consumer electronic products as they practice electronic product troubleshooting, servicing, and safety procedures. The cooperative education method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. Offered to students in Grades 10-12. Taught concurrently with CAD III.

Prerequisite: Successful completion of Computer Assisted Drafting I

CREDIT: 1 DE credit

**COMPUTER ASSISTED DRAFTING III (10853200)** - Students use a graphic language for product design and technical illustration. They increase their understanding of drawing techniques learned in the prerequisite courses. They research design-related fields while identifying the role of advanced drawing and design in manufacturing and construction industry processes. They apply the design process, analyze design solutions, reverse engineer products, create 3-D solid models using CADD, construct physical models, and create multimedia presentations of finished designs. They complete a work portfolio based on a chosen graphic project.. The course is especially recommended for future engineering, architecture, or technology students. This course is offered to students in Grades 10-12. Taught concurrently with CAD II.

Prerequisite: Successful completion of Computer Assisted Drafting I

CREDIT: 1 DE credit

**COMPUTER ASSISTED DRAFTING IV (10853201)**- This course furthers students' knowledge of orthographic projection procedures, auxiliary views, working drawings, pictorial presentations, and specialized areas of employment, using the AutoCAD computer system. This course is especially recommended to students in Grades 11 - 12. This is a dual enrollment class. Taught concurrently with CAD V.

Prerequisite: Successful completion of Computer Assisted Drafting II/III

CREDIT: 1 DE credit

**COMPUTER ASSISTED DRAFTING V (10853202)**- This course continues to further students' knowledge of orthographic projection procedures, auxiliary views, working drawings, pictorial presentations, and specialized areas of employment, using the AutoCAD computer system. This course is especially recommended to students in Grades 11 - 12. This is a dual enrollment class. Taught concurrently with CAD IV.

Prerequisite: Successful completion of Computer Assisted Drafting II/III

CREDIT: 1 DE credit

**ELECTRONICS I (10853600)** -Students learn to assemble, install, operate, maintain, repair, and troubleshoot electrical/electronic equipment used in industry and manufacturing. Digital and computer circuitry, synchro- and servomechanisms, mechanical power transfer systems, three-phase alternate current and electronic wave shaping are included in this program. This course is offered to students in Grades 9 - 11.

Prerequisite: None

CREDIT: 1 standard credit

*In order to be considered a Computer Systems vocational sequence completer, the student must complete Electronics I, and Computer Systems I and II.*

**COMPUTER SYSTEMS I (10862001)**- This course offers students a study in the field of computers. Students study computer hardware as well as operating systems software. Students learn to construct, troubleshoot, service, and repair computer systems,

related components, and software. Students learn to install and maintain local area networks. Students install software and hardware components on computers and learn the proper methods of determining computer problems. Dual Enrollment is available to students who are juniors and seniors and have met the established prerequisites. Upon completion of this course, students may elect to take the nationally recognized certification test to determine if they are eligible to receive an “A+ Computer Technician Certification” test. This course is offered to students in Grades 10 - 12. Taught concurrently with Computer Systems II.

Prerequisite: Successful completion of Electronics I

CREDIT: 1 standard credit

**COMPUTER SYSTEMS II (10862101)**- This course offers students continued study in the field of computers. Students study computer hardware as well as operating systems software. Students learn to construct, troubleshoot, service, and repair computer systems, related components, and software. Students learn to install and maintain local area networks. Students install software and hardware components on computers and learn the proper methods of determining computer problems. Dual Enrollment is available to students who are juniors and seniors and have met the established prerequisites. Upon completion of this course, students may elect to take the nationally recognized certification test to determine if they are eligible to receive an “A+ Computer Technician Certification” test. This course is offered to students in Grades 10 - 12. Taught concurrently with Computer Systems I.

Prerequisite: Successful completion of Electronics I

CREDIT: 1 standard credit

*In order to be considered an Electronics vocational sequence completer, the student must complete Electronics I, II and III.*

**ELECTRONICS II (10853701)** - Students continue to learn to assemble, install, operate, maintain, repair, and troubleshoot electrical/electronic equipment used in industry and manufacturing. Digital and computer circuitry, synchro- and servomechanisms, mechanical power transfer systems, three-phase alternate current and electronic wave shaping are included in this program. Upon completion of this course, students may elect to take the nationally recognized certification test to determine if they are eligible to receive an associate level of the “Certified Electronics Technicians” test. Taught concurrently with Electronics III.

Prerequisite: Successful completion of Electronics I

CREDIT: 1 DE credit

**ELECTRONICS III (10853801)** - Students master the skills necessary to assemble, install, operate, maintain, repair, and troubleshoot electrical/electronic equipment used in industry and manufacturing. Digital and computer circuitry, synchro- and servomechanisms, mechanical power transfer systems, three-phase alternate current and electronic wave shaping are included in this program. Upon completion of this course, students may elect to take the nationally recognized certification test to determine if they are eligible to receive an associate level of the “Certified Electronics Technicians” test. Taught concurrently with Electronics II.

Prerequisite: Successful completion of Electronics I

CREDIT: 1 DE credit

*NOTE: Students who complete the Electronics program may substitute the completion for a mathematics OR science credit in the Standard Diploma curriculum. All program completers, including students in Special Programs, are eligible for a mathematics credit in the Standard Diploma curriculum.*

**CISCO NETWORKING** -These classes will be held at SVCC in the CISCO lab. To complete the CISCO sequence of four semesters, students should begin in the fall semester of the junior year. Students completing the CISCO sequence will earn 16 credit hours; in order to complete a Career Studies Certificate in CISCO, one additional IT elective must be taken.

**NETWORKING FUNDAMENTALS CISCO** -This course provides introduction to networking using the OSI reference model. It includes data encapsulation, TCP/IP suite, routing, IP addressing and structured cabling design and implementation.

PR: Good reading comprehension skills and basic math skills; Grade 11

CREDIT: 1 DE credit; 4 college credits

**INTRODUCTORY ROUTING CISCO** – This course features an introduction to basic router configuration using CISCO IOS software. It includes system components, interface configuration, IP network design, troubleshooting techniques, configuration and verification of IP addresses, and router protocols.

PR: Networking Fundamentals CISCO

CREDIT: 1 DE credit; 4 college credits

**BASIC SWITCHING AND ROUTING CISCO** – This course centers instruction in LAN segmentation, using bridges, routers and switches. It includes fast Ethernet, access lists, routing protocols, spanning tree protocol, virtual LANS and network management.  
PR: CISCO Networking Fundamentals and Introductory Routing  
CREDIT: 1 DE credit; 4 college credits

**WAN TECHNOLOGIES CISCO** – This course concentrates on an introduction to Wide Area Networking (WAN). It includes WAN design, LAPB., Frame Relay, ISDN, HDLC, and PPP.  
PR: CISCO Basic Switching and Routing  
CREDIT: 1 DE credit; 4 college credits

## **Culinary Arts**

*In order to be considered a Culinary Arts vocational sequence completer, the student must complete Introduction to Culinary Arts, Culinary Arts I, II, III and IV.*

**INTRODUCTION TO CULINARY ARTS (10827500)** - This course focuses on food and nutrition issues relating to resource conservation management, safety and sanitation, care of essential equipment, meal management, food preparation and service skills, nutritional guidelines, nutrition, career management, and careers related to food and nutrition. This course is offered to students in Grades 9-10  
Prerequisite: None  
CREDIT: 1 standard credit

**CULINARY ARTS I (10827501)**- Students practice managerial, production, and service skills used in government, commercial, or independently owned institutional food establishments and related food industry occupations. Students plan, select, store, purchase, prepare, and serve food and food products; study basic nutrition, sanitation, and food safety; the use and care of commercial equipment; and the operation of institutional food establishments. Critical thinking, practical problem solving, and entrepreneurship opportunities within the field of culinary arts are emphasized. Teachers highlight the basic skills of mathematics, science, and communication when appropriate in content. This course is offered to students in Grades 10-11. Externships are available after meeting eligibility requirements of ProStart program and recommendation of the instructor. Taught concurrently with Culinary Arts I.  
Prerequisite: Introduction to Food Occupations  
CREDIT: 1 standard credit

**CULINARY ARTS II (10827600)**- This course is designed to develop skills for entry level employment as a waiter/waitress, dining room attendant, cook, caterer's helper, and other related food service jobs. Emphasis is placed on the development of personal qualities and job seeking skills for employment. This course is offered to students in Grades 10-11. Externships are available after meeting eligibility requirements of ProStart program and recommendation of the instructor. Taught concurrently with Cukinary Arts I.  
Prerequisite: Introduction to Food Occupations  
CREDIT: 1 standard credit

**CULINARY ARTS III (10827601)**- This course is designed to provide in-depth instruction in food preparation and development of personal qualities for job success and employment opportunities in the food industry. Emphasis is placed on helping students acquire competencies necessary for advancement into such skilled areas as cook, cafeteria or lunchroom manager, and entrepreneur. Cooperative (on the job) education coordinated by the instructor is an option. This course is offered to students in Grades 11-12. Externships are available after meeting eligibility requirements of ProStart program and recommendation of the instructor. Taught concurrently with Culinary Arts IV.  
Prerequisite: Food Occupations I and II  
CREDIT: 1 standard credit

**CULINARY ARTS IV (10827602)**- This course is designed to Continue in-depth instruction in food preparation and development of personal qualities for job success and employment opportunities in the food industry. Emphasis is placed on helping students acquire competencies necessary for advancement into such skilled areas as cook, cafeteria or lunchroom manager, and entrepreneur. Cooperative (on the job) education coordinated by the instructor is an option. This course is offered to students in Grades 11-12. Externships are available after meeting eligibility requirements of ProStart program and recommendation of the instructor. Taught concurrently with Culinary Arts III.  
Prerequisite: Food Occupations I and II  
CREDIT: 1 standard credit