

AMHERST COUNTY HIGH SCHOOL

PROGRAM OF STUDIES

2010-2011

INTRODUCTION

Dear Student:

Welcome to Amherst County High School and the 2010-2011 school year. The schedule for next year will be a seven period day. Therefore, it is imperative that you make wise choices as you make course selections for next year.

The program of studies should assist you in planning your four years at Amherst County High School. This information is important as it describes the courses available for the diploma you wish to obtain at graduation. I encourage you to review this program of studies with your parents and counselor before finalizing your schedule for the 2010-2011 school year. If you have any questions about required course levels or elective courses, please do not hesitate to contact your counselor.

The staff at Amherst County High School is available to assist you with your high school course of study. It is important that you carefully consider all course selections in planning your 2010-2011 school year.

If I can be of any assistance, please feel free to contact me.

Sincerely,
Ernie Guill, Principal

GENERAL INFORMATION - GRADUATION

Diploma Options

Amherst County High School currently offers the following diplomas: Standard, Advanced Studies, Modified Standard, and Special. In addition, students may earn the following state seals: Career and Technical Education, Advanced Mathematics and Technology, Excellence in Civics Education, Governor's Seal, and/or Board of Education Seal. All diploma and seal requirements are in full compliance with the Standards of Accreditation of the Virginia Department of Education. The Class of 2014 will have the opportunity to earn a Standard or Advanced Technical diploma(see pages 9 and 10).

Standard Credit and Verified Credit

For all year-long courses, a standard unit of credit is awarded for the course in which the student successfully completes 140 clock hours of instruction. For certain year-long courses in math, science, English, and history, a verified unit of credit is awarded for the course (in addition to the standard unit of credit) if the student successfully completes the course and achieves a passing score on the related end-of-course Standards of Learning assessment. In order to receive a diploma, secondary students will be required to earn verified units of credit in addition to standard units of credit.

Students shall earn the standard units of credit and verified units of credit to meet graduation requirements as follows.

Standard Diploma Requirements

<i>Standard Diploma</i>		
<i>Discipline Area</i>	<i>Standard Unit of Credit</i>	<i>Verified Units of Credit</i>
English	4	2
Mathematics ¹	3	1
Science ²	3	1
Social Studies ³	3	1
Health and PE	2	
Fine or Practical Arts	1	
Electives ⁴	6	
Student Selected SOL Test ⁵		1
TOTAL	22	6

¹ Mathematics courses completed to satisfy this requirement shall be at or above the level of Algebra I and shall include at least two course selections from among Algebra I, Geometry, Algebra II, or other mathematics courses above the level of algebra and geometry.

² Science courses completed to satisfy this requirement shall include selections from at least two science disciplines: Earth Science, Biology, Chemistry, or Physics.

³ Social Studies courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, and one World History or World Geography course.

⁴ A student must have earned at least two sequential electives.

⁵ A student may utilize additional assessments for earning verified credits as prescribed by the State Board of Education.

Advanced Studies Diploma Requirements

Advanced Studies Diploma

<i>Discipline Area</i>	<i>Standard Unit of Credit</i>	<i>Verified Units of Credit</i>
English	4	2
Mathematics ¹	4	2
Science ²	4	2
Social Studies ³	4	2
Foreign Language ⁴	3 or 4	
Health and PE	2	
Fine or Practical Arts	1	
Electives	1 or 2	
Student Selected SOL Test ⁵		1
TOTAL	24	9

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

² Science courses completed to satisfy this requirement shall include selections from three different science disciplines among Earth Science, Biology, Chemistry, Physics, Chemistry II or AP Biology.

³ Social Studies courses completed to satisfy this requirement shall include U.S. and Virginia History, and U.S. and Virginia Government, and two selections from among World Geography, World History I, and World History II.

⁴ Foreign Language courses completed to satisfy this requirement shall include three years of one language or two years of two languages.

⁵ A student may utilize additional assessments for earning verified credits as prescribed by the State Board of Education.

Modified Standard Diploma Requirements

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.

The school must secure the informed written consent of the parent/guardian and the student to choose this diploma program after review of the student’s academic history and the full disclosure of the student’s options.

The student who has chosen to pursue a Modified Standard Diploma shall also be allowed to pursue the Standard or Advanced Studies Diploma at any time

throughout that student’s high school career. The student will not be excluded from courses and tests required to earn a Standard or Advanced Studies Diploma.

Students pursuing the Modified Standard Diploma must pass the eighth grade English RLR and math SOL tests.

Modified Standard Diploma

<i>Discipline Area</i>	<i>Standard Unit of Credit</i>
English	4
Mathematics ¹	3
Science ²	2
Social Studies ³	2
Health and PE	2
Fine or Practical Arts	1
Electives ⁴	6
TOTAL	20

¹ Courses completed to satisfy this requirement shall include content from among applications of algebra, geometry, and personal finance, and statistics in courses that have been approved by the Board.

² Courses completed shall include content from at least two science disciplines: Earth science, biology, chemistry, or physics in courses approved by the Board.

³ Courses completed to satisfy this requirement shall include one unit of credit in U.S. and Virginia History and one unit of credit in U.S. and Virginia Government in courses approved by the Board.

⁴ Courses to satisfy this requirement shall include at least two sequential electives in the same manner required for the Standard Diploma.

Recognition of Merit

The **Scholar’s List** is a nine-week academic recognition for all students who take a minimum of five units of credit per semester and who have a GPA of 3.50 or better. All courses will count in computing the grade point average (GPA).

The **Honor Roll** is a nine-week academic recognition for all students who take a minimum of five units of credit per semester and who have a GPA of 3.25 to 3.49. All courses will count in computing the GPA.

The **Golden “A” Award** is a merit-based program designed to recognize student achievement annually with a certificate and cumulatively after four years of high school with a trophy. The certificate will be awarded to students in grades 9 through 12 who

1. Maintain a 3.7 GPA and pass all SOL tests
or

- Maintain a 3.60-3.699 and pass the majority of their SOL tests with Pass/Advanced or have SAT score of 1000+ or PSAT score of 1650+ or a 4 or 5 on an AP exam.

The Golden “A” trophy will be awarded to students in grade 12 who have maintained a cumulative 3.70 GPA for the high school grades 9 through 12.

The following criteria for a certificate apply to students in 9th grade:

- Maintain a 3.70 GPA in all 8th grade courses or
- Maintain a 3.60-3.699 GPA and score Pass/Advanced in three 8th grade SOL tests.

National Honor Society

Amherst County High School actively participates in the National Honor Society. The faculty selects students for membership at the beginning of their junior year. This selection is based upon scholarship (3.5 GPA), service, leadership, and character.

Central Virginia Governor’s School Application Process

The Governor’s School serves juniors and seniors from 5 surrounding school divisions. Students take mathematics, science, and technical courses at the Governor’s School in the morning and return to the high school in the afternoon for the remainder of their classes. The curriculum is designed to challenge students in math and science. Students apply for admission in the spring of their sophomore year. Criteria for selection include, but are not limited to the following:

- Completed Algebra II/Trigonometry during the 10th grade year.
- Completed Chemistry during the 10th grade year.
- PSAT scores taken in the fall of the 10th grade year.
- Exceptional interest/aptitude in math and science.
- High level of achievement in all courses
- Outstanding reading comprehension skills
- Teacher recommendations
- Ability to perform in a self-directed learning atmosphere.

Courses available at the Governor’s School are: Junior Research, Math Analysis, Physics, Dual Enrollment Calculus, Dual Enrollment Biology, Dual Enrollment Computer Science, Dual Enrollment Chemistry, Dual Enrollment Vector Calculus, Dual Enrollment Linear

Algebra, Connections in Mathematics, and Senior Technology Seminar. Senior Technology Seminar and Junior Research **are not** weighted courses.

The Early College Program

The Early College Program is a unique and exciting partnership with Central Virginia Community College. Early College is a 2 year program designed to allow selected juniors who have successfully completed Algebra II or Algebra II/Trig to earn an Advanced Studies high school diploma and an Associate in Arts and Science degree at the same time. The successful completion of Chemistry in Grade 10 is highly recommended. Students attend classes in the morning at CVCC Amherst Center and have the option of returning to Amherst County High School in the afternoon to take electives or additional math and science courses. Only core content courses will be weighted. Therefore, Orientation, Health, Introduction to Computer Applications, Music Appreciation, Sociology, Speech and Drama will not be weighted. Applications to this program are due in March of the Sophomore year.

Central Virginia Community College Articulation and Dual Enrollment College Credit

The Tech Prep/College Prep Program is a partnership between Amherst County High School and CVCC. Students successfully completing the high school portion of Tech Prep/College Prep program may be eligible to receive college credit for selected courses at CVCC. Articulated courses offered at CVCC include Advanced Engineering and Design Technology, Micro-Computer Automation, Marketing, Office System Technology, and Welding.

College level dual enrollment courses are available to students in the Tech Prep/College Prep Program. As a result, time and money are saved in the pursuit of post-secondary education. High School counselors can provide more information about the requirements for dual enrollment participation. Dual enrollment courses offered by ACHS include Advanced Composition, Calculus, Precision Machining Technology (Machine Tools), Heating/Ventilation/Air Conditioning (HVAC), Microcomputer Software Applications and Emergency Medical Technician (EMT), Welding II, CAD II, Building Trades II and Computer Systems Technology.

Virtual Virginia

Virtual Virginia provides access to online Advanced Placement and elective courses. Students who meet the prerequisites may enroll through their school counselor. www.virtualvirginia.org

**Policy for Awarding High School Units of Credit
in Dual Enrollment Courses**

Core Courses

Dual enrollment core courses are awarded one unit of high school credit per **course** regardless of whether the course is taken on or off the high school campus.

Elective Courses

Elective dual enrollment courses are awarded ½ credit per **semester course**. These courses are taken off campus.

Weighted Courses

Certain courses, because of their level of difficulty, will be weighted at a higher level than other courses. The following courses have been identified as weighted courses:

AP English 11

AP U.S. Government

AP U.S. History

AP Biology

CVCC Academic Dual Enrollment Courses

Advanced Composition

Calculus I

Sweet Briar College Academic Courses

(See School Counselor)

CVGS Courses

(See page 3)

Credit Required for Promotion

9th to 10th5

10th to 11th10

11th to 12th15

Course Sequence Policy

All courses must be taken in sequence. Students may not take sequenced courses simultaneously.

Grading Scale

<u>Symbol</u>	<u>Scale</u>	<u>Standard</u>
A+	98-100	4.0
A	95-97	4.0
A-	92-94	3.7
B+	89-91	3.3
B	86-88	3.0
B-	83-85	2.7
C+	80-82	2.3
C	77-79	2.0
C-	74-76	1.7
D+	71-73	1.3
D	68-70	1.0
D-	65-67	0.7
F	64-below	0.0

Course Registration Philosophy

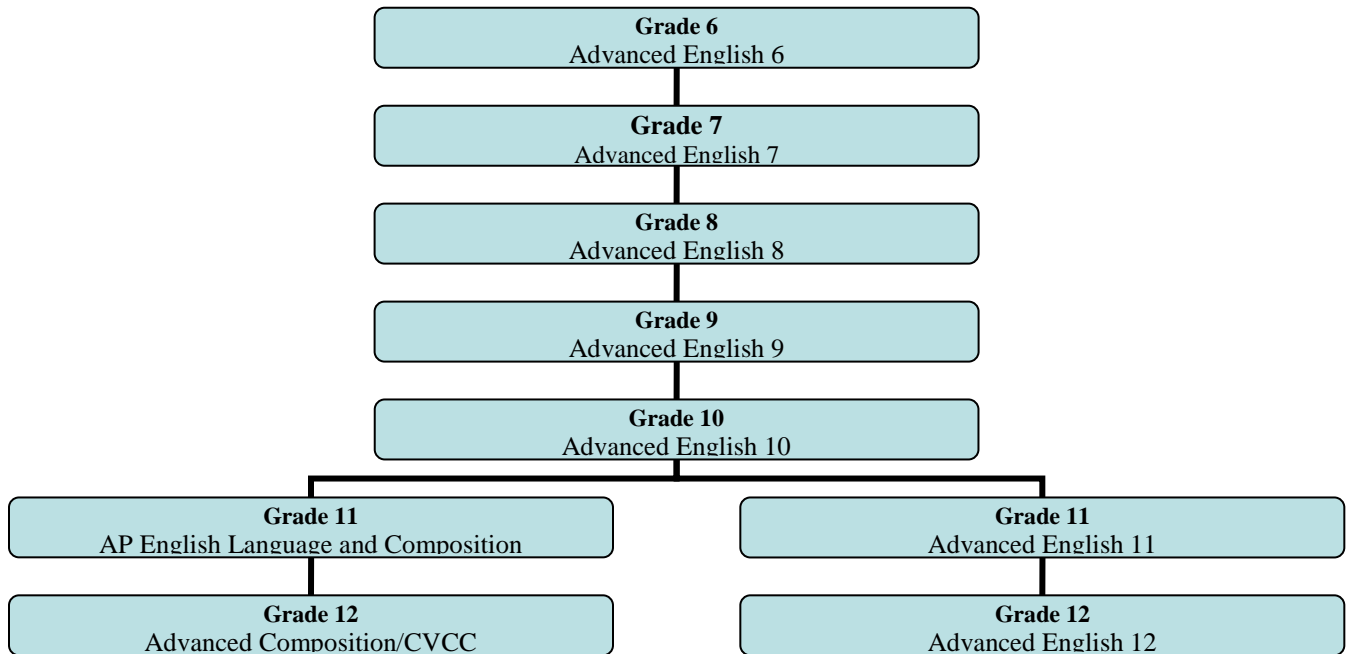
Students are encouraged to enroll in academically challenging courses. School counselors are available to advise students regarding course selections. However, students and their parents maintain the right to select a course at a higher level of difficulty than recommended by teachers and/or school counselors. Students and their parents will make the final decision regarding course selection. Registration for a course in which a student does not meet the prerequisite requirements will require a parent conference with Administration and the School Counseling Department and a required written waiver on file.

ENGLISH

Suggested Sequence Options

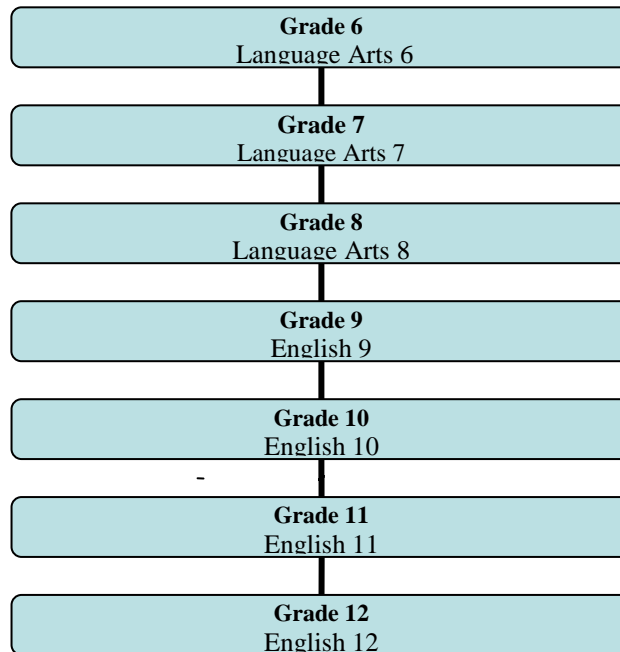
Advanced Studies Diploma

4 required English courses at the high school level



Standard Diploma

4 required English courses at the high school level

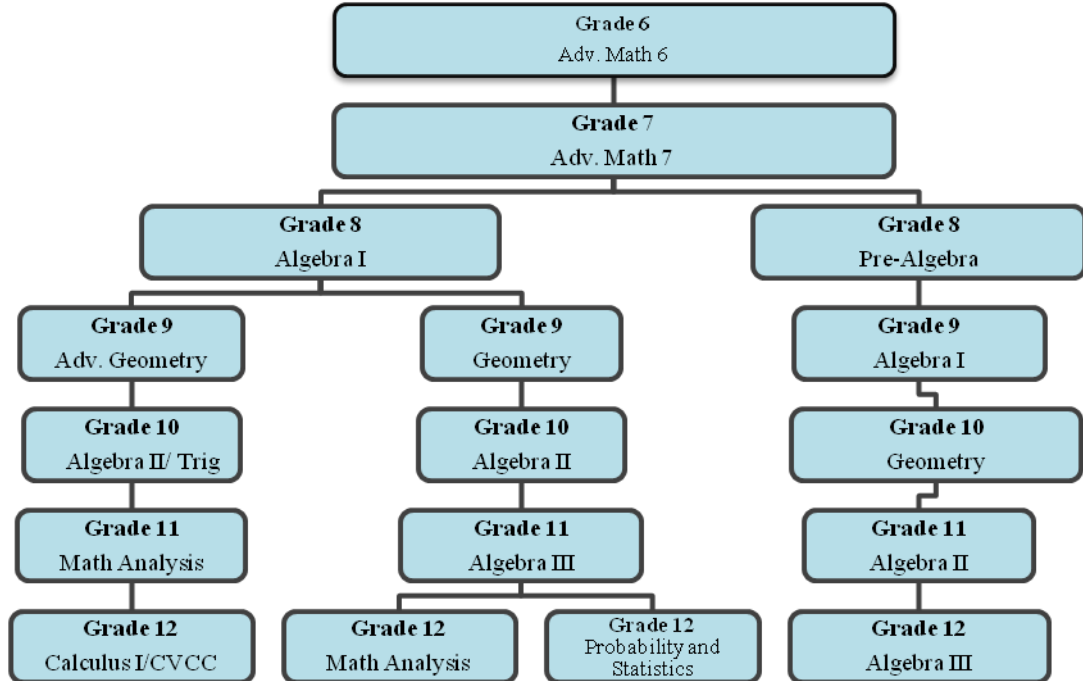


MATH

Suggested Sequence Options

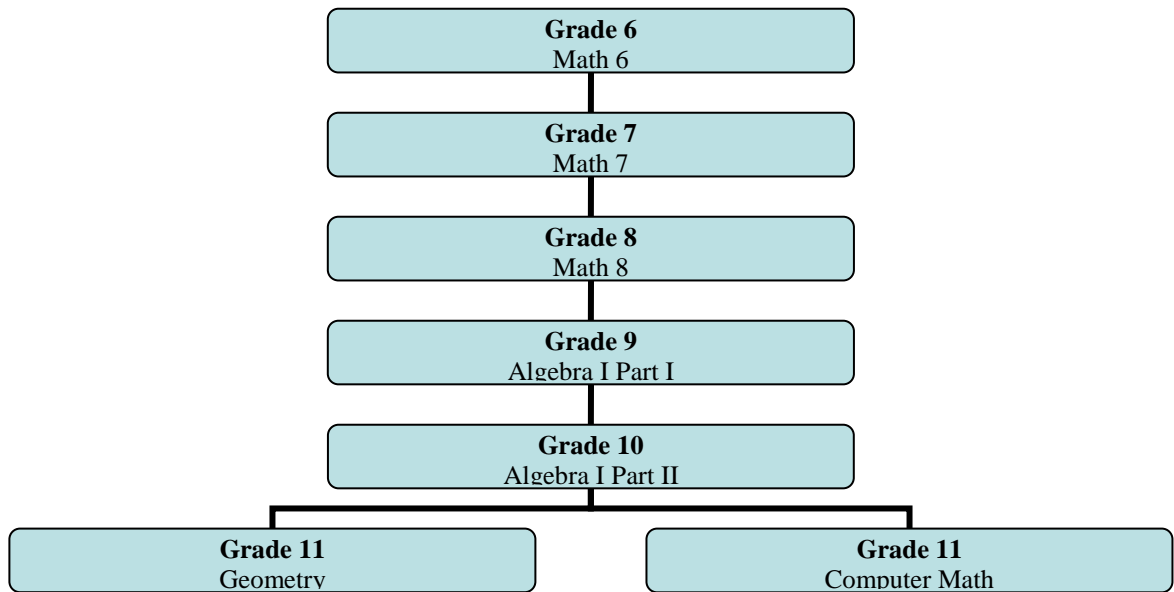
Advanced Studies Diploma

4 required math courses at the high school level



Standard Diploma

3 required math courses at the high school level

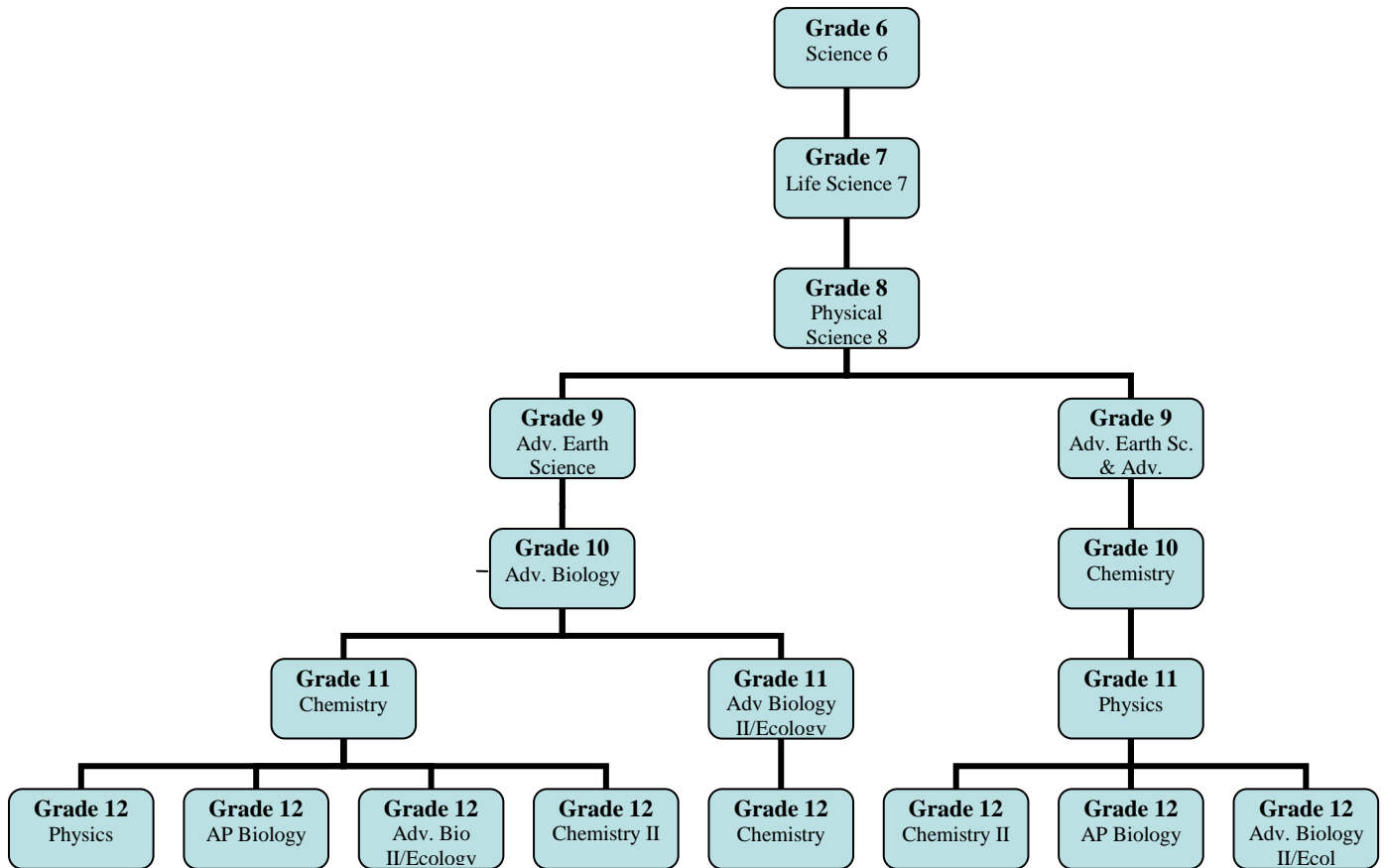


SCIENCE

Suggested Sequence Options

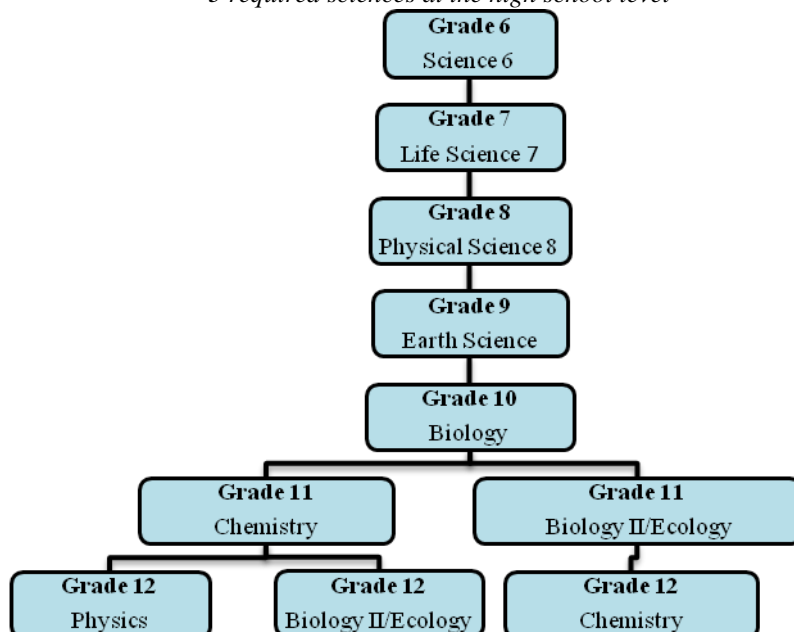
Advanced Studies Diploma

4 required sciences at the high school level



Standard Diploma

3 required sciences at the high school level

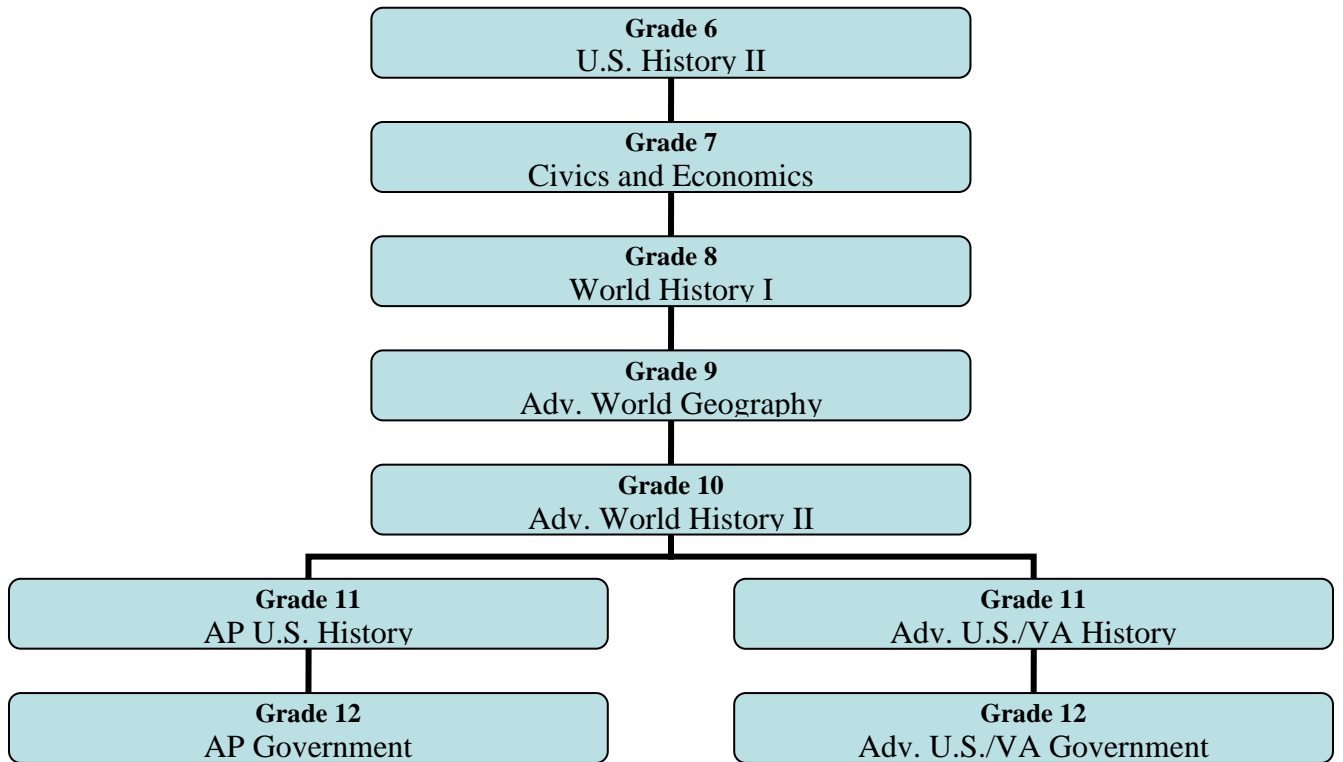


SOCIAL STUDIES

Suggested Sequence Options

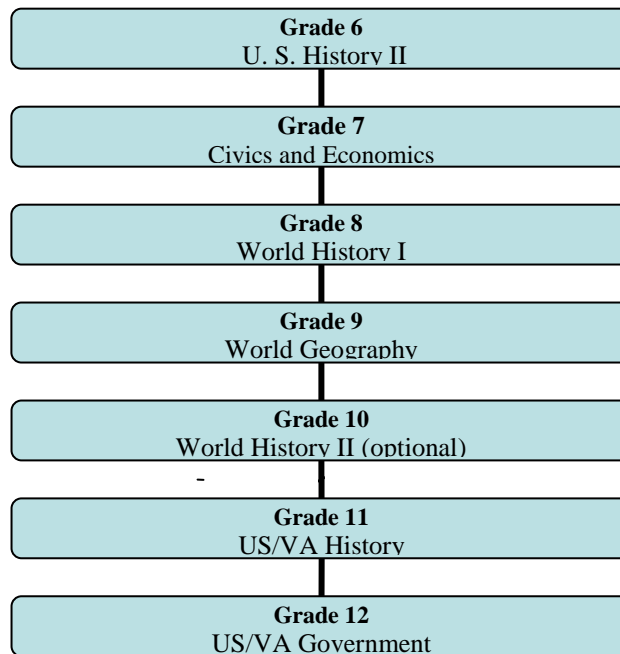
Advanced Studies Diploma

4 required social studies at the high school level



Standard Diploma

3 required social studies at the high school level



Diploma Requirements

Standard Diploma

- Beginning with the ninth-grade class of 2010-2011 and beyond, students shall earn the required standard and verified units of credit as outlined below.
- Credits required for graduation with a Standard Diploma

Standard Diploma

<i>Discipline Area</i>	<i>Standard Unit of Credit</i>	<i>Verified Units of Credit</i>
English	4	2
Mathematics ¹	3	1
Laboratory Science ²	3	1
History and Social Studies ^{3,6}	3	1
Health and PE	2	
Fine Arts or Career and Technical Practical Ed	1	
Economics and Personal Finance	1	
Electives ⁴	5	
Student Selected Test ⁵		1
TOTAL	22	6

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

² Courses completed to satisfy this requirement shall include selections from at least two different science disciplines: Earth Science, Biology, Chemistry, or Physics.

³ Courses completed to satisfy this requirement shall include U.S. and Virginia History, Virginia Government, and one course in either courses to satisfy this requirement.

⁴ Courses to satisfy this requirement shall include at least two sequential electives as required by the Standards of Quality.

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

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

Standard Technical Diploma

Requirements for a Standard Technical Diploma

- Credits required for graduation with a Standard Technical Diploma

Standard Technical Diploma

<i>Discipline Area</i>	<i>Standard Units of Credit Required</i>	<i>Verified Credits Required</i>
English	4	2
Mathematics ¹	3	1
Laboratory Science ^{2,5}	3	1
History and Social Studies ^{3,5}	3	1
Health and PE	2	
Economics and Personal Finance	1	
Career and Technical Ed.	4	
Electives	2	
Student Selected ⁶		1
TOTAL	22	6

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

² Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, and one course in either world history or geography or both. The board shall approve courses to satisfy this requirement.

³ Courses completed to satisfy this requirement must include a career concentration as approved by the board. For concentrations that require less than four courses, students must complete additional courses that are related to the student's career concentration.

⁴ Courses completed to satisfy this requirement must include a career concentration as approved by the board. For concentrations that require less than four courses, students must complete additional courses that are related to the student's career concentration.

⁵ Students who complete a career and technical education program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential from a recognized industry or trade or professional association or acquires a professional license in a career and technical education field from the Commonwealth of Virginia may substitute the certification competency credential or license for (i) the student selected verified credit and (ii) either a science or history and social science verified credit when the certification license or credential confers more than one verified credit. The examination or occupational test to verify student achievement. If a career concentration includes a specific assessment approved by the board, then the student must take this assessment.

⁶ A student may utilize additional tests for earning verified credit .

Advanced Studies Diploma

Requirements for an Advanced Studies Diploma

1. Credits required for graduation with an Advanced Studies Diploma.

Advanced Studies Diploma

<i>Discipline Area</i>	<i>Standard Units of Credit Required</i>	<i>Verified Credits Required</i>
English	4	2
Mathematics ¹	4	2
Laboratory Science ²	4	2
History and Social Studies ³	4	2
Foreign Language ⁴	3	
Health and PE	2	
Fine Arts or Career and Technical Ed.	1	
Economics and Personal Finance	1	
Electives	3	
Student Selected Test ⁵		1
TOTAL	26	9

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

² Courses completed to satisfy this requirement shall include selections from at least three different science disciplines from among Earth Science, Biology, Chemistry, or Physics, or completion of the sequence of science courses required for the International Baccalaureate Diploma. The board shall approve additional courses to satisfy this requirement.

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

⁴ Courses completed to satisfy this requirement shall include three years of one language or two years of two languages.

⁵ A student may utilize additional tests for earning verified credit in Computer Science, Technology, Career or Technical Education, Economics or other areas as prescribed by the board in 8VAC20-131-110.

Advanced Technical Diploma

Requirements for an Advanced Technical Diploma

1. Credits required for graduation with an Advanced Technical Diploma.

Advanced Technical Diploma

<i>Discipline Area</i>	<i>Standard Units of Credit Required</i>	<i>Verified Credits Required</i>
English	4	2
Mathematics ¹	4	2
Laboratory Science ²	4	2
History and Social Studies ³	4	2
Foreign Language ⁴	3	
Health and PE	2	
Economics and Personal Finance	1	
Career and Technical Education ⁵	3	
Fine or Practical Art	1	
Student Selected Test ⁶		1
Total	26	9

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

² Courses completed to satisfy this requirement shall include selections from at least three different science disciplines from among Earth Science, Biology, Chemistry, or Physics, or completion of the sequence of science courses required for the International Baccalaureate Diploma. The board shall approve additional courses to satisfy this requirement.

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

⁴ Courses completed to satisfy this requirement shall include three years of one language or two years of two languages.

⁵ Courses completed to satisfy this requirement must include a career concentration as approved by the board. For concentrations that require less than four courses, students must complete additional courses that are related to the student's career concentration. If a career concentration includes a specific assessment approved by the board, then the student must take this assessment to fulfill this requirement.

⁶ A student may utilize additional tests for earning verified credit in Computer Science, Technology, Career or Technical Education, Economics or other areas as prescribed by the board in 8VAC20-131-110.

COURSE OF STUDY

ART

Although instructional materials are provided, the student is often required to provide materials for individual projects that he/she retains. An art fee is required.

ART I

Prerequisite – None

Semester – ½ credit

Student will work in a variety of drawing mediums including but not limited to pencil, pen and ink, charcoal and pastels. They will use various drawing techniques to do a range of subjects from portraits to landscapes.

ART II

Prerequisite: None

Year - 1 Credit

This course is offered to students who have an interest in creative expression through drawing and painting.

ART III

Prerequisite: Art II or staff recommendation with portfolio review.

Year - 1 credit

Students will do more in-depth study focusing in the areas of drawing, design, sculpture, painting and printmaking. This course is a continuation of the Art II program.

ART IV

Prerequisite: Art III and a portfolio of current work for review.

Year - 1 credit

This course is for students who have considerable drawing and painting experience. This course stresses individual development. Experimentation is encouraged using a wide variety of drawing and painting media and techniques. Individuals will be expected to perfect their talents and to build on what they learned in Art II & III.

ART V

Prerequisite: Art IV

Year - 1 credit

Students with a strong interest in the visual arts may do an in-depth study in various mediums. This course is designed to give students a chance for independent study.

CERAMICS I

Prerequisite: -None

Semester - ½ Credit

Students will use clay to create a variety of different projects. They will learn various hand-building techniques to construct their projects and will explore

many surface-decorating methods for the finish of the projects.

CERAMICS II

Prerequisite: Ceramics I

Semester – ½ credit

Students will build on previously learned skills by designing and constructing more advanced clay projects. They will employ greater exploration of hand-building techniques and use of the potter's wheel. A wider variety of surface-decorations and firing methods will be explored.

CERAMICS III

Prerequisite: Ceramics II completed and teacher recommendation-This could be a combined class including Ceramics II.

Semester – ½ credit

Students will further their ceramic education, experience and personal artwork. The students will work on completing a portfolio of work. The students will learn more of the chemical and historical aspects of the ceramic arts. Glaze and slip formulation will be required for the student to investigate and research. Students will also be required to enter into art shows and work on gallery research and representation. The class objectives will change each semester and with each student. This will be a progressive course that can be taken multiple semesters for students to further their ceramic growth.

PHOTOGRAPHY I

Prerequisite: None

Year - 1 credit

Photography I is designed to give students knowledge of basic photography through lectures, demonstrations, working assignments and laboratory practice. Students will explore the principles of photography and fundamental techniques of the camera in relation to the expressive possibilities in visual communication and design. (Students will be responsible for providing their own film, printing paper and portfolio supplies: \$50-\$75 for the year). They will need access to a 35 mm camera to use at home. It is strongly recommended they have a SLR camera with manual mode capabilities.

PHOTOGRAPHY II

Prerequisite-Photography I

Year-1 credit

Students will do more in-depth study in photography and refine their lab skills to a higher degree. Special processing techniques and digital imaging will be explored. As part of the class assignment students will work closely with the yearbook and newspaper staffs to provide pictures for their publications. (Students

will be responsible for providing their own film, printing paper and portfolio supplies: \$50-\$75 for the year). They will need access to a 35 mm camera to use at home. It is strongly recommended they have a SLR camera with manual mode capabilities.

PHOTOGRAPHY III

Prerequisite-Photo II and teacher recommendation
Year - 1 credit

Photography III will allow students to work more independently on their own individual skill levels. They will work more with digital photography as well as medium format black and white. They will continue to develop their portfolio. They would be encouraged to research career opportunities in the field of photography. (Students will be responsible for providing their own film, printing paper and portfolio supplies: \$50-\$75 for the year). They will need access to a 35 mm camera to use at home. It is strongly recommended they have a SLR camera with manual mode capabilities.

ENGLISH

Students must take their English courses in sequence with only one English course per year. Exceptions may be considered in the junior and senior year provided the student can meet the credit requirements for graduation.

A student may not enroll in more than two grade levels of English.

ENGLISH 9

Prerequisite: None
Year – 1 credit

This course is a combined study of reading skills, literature, use of information sources, intensive word study, discussion techniques, and writing practice.

ADVANCED ENGLISH 9

Prerequisite: Teacher Recommendation and successful completion of the English 8 reading and writing tests.
Year – 1 credit

This class is designed for students who have exceptional aptitude and a keen interest in the areas of reading and writing. The class will be literature based, and in-depth class discussions will be an integral part of that study. Outside reading will be assigned each nine weeks.

Creative writing will be an on-going requirement of the class, and students will learn to analyze the literature they are reading through critiquing rather than summarizing. Vocabulary study will focus on analogies and usage rather than on spelling and definitions. Summer assignments may be given.

ENGLISH 10

Prerequisite - English 9
Year – 1 credit

This course is a combined study of world literature, narrative and expository composition, library, research, technical and computer skills, and grammatical usage.

ADVANCED ENGLISH 10

Prerequisite- Advanced English 9 and teacher recommendation.

Year – 1 credit

This class is designed for students who have successfully completed Advanced English 9. It is designed for students who have an exceptional aptitude and a keen interest in the areas of reading and writing. Above average competency in writing is a must. The curriculum will be literature based, and in-depth class discussions will be an integral part of that study. Outside reading will be required. Writing instruction will focus on expository writing; however, narrative and descriptive writing will continue to be practiced. At the discretion of the teacher, major writing projects may also be incorporated into the class. Vocabulary study will prepare students for SAT testing. Summer assignments may be given.

ENGLISH 11 SOL ENRICHMENT

Prerequisite-Administration/School Counselor recommendation

SOL Test

Semester – non-credit

This course is designed for students who have successfully completed English 11, but who have not successfully completed the accompanying Standards of Learning assessment. The course focuses on reinforcing the skills needed to pass the reading and writing portion of the Virginia Standards of Learning English 11 End of Course test. Emphasis will be placed on writing, reading, literature, and research skills. The course will utilize SOL English materials. Emphasis will also be placed on familiarizing students with the end of course (EOC) test format and test-taking strategies in order to maximize their scores on the accompanying Standard of Learning assessment.

ENGLISH 11

Prerequisite - English 10
Year – 1 credit

SOL Test

This course is a combined study of American literature, impromptu speaking, expository and research composition, and grammatical usage.

ADVANCED ENGLISH 11

Prerequisite – Advanced English 10 and teacher recommendation



Year – 1 credit

This class is designed for students who have successfully completed Advanced English 10. This is a survey course of American Literature from 1607 to the present. This course involves a more in-depth look at the literature as well as additional reading and writing. Outside reading is required. Summer assignments may be given.

AP ENGLISH 11- LANGUAGE AND COMPOSITION



Prerequisite-Summer reading and writing; strongly suggest students have taken Advanced English in the 9th and 10th grades with a grade of B or above; teacher recommendation.

Year - 1 credit

AP Language and Composition follows the Advanced Placement English curricula. It is an intensive study of literature, with a focus on American literature and writing. Various types of writing, rhetoric, and parallel readings will be emphasized. Students are required to read and write extensively. Summer assignments will be given.

ENGLISH 12

Prerequisite - English 11

Year – 1 credit

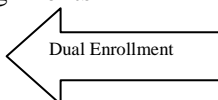
This course will study British literature and literature of other cultures. Students will focus on organizational skills, vocabulary, grammar, and verbal and non-verbal presentation skills. Students will produce technical, expository, and analytical writing as well as a documented research paper and an oral presentation.

ADVANCED ENGLISH 12

Prerequisite – Advanced English 11; teacher recommendation and successful completion of the English 11 SOL reading and writing tests

Year – 1 credit

This class is designed for students who have successfully completed Advanced English 11 and/or have the recommendation of their eleventh grade English teacher. This is a survey course of British Literature from Anglo-Saxon to the present. This course involves a more in-depth look at the literature as well as additional reading and writing. A major research project with a documented research paper is required along with other analyses of classic works. Outside reading is required. Summer assignments may be given.



ADVANCED COMPOSITION/CVCC

Six CVCC College Credits, One High School Credit.

Prerequisite- Seniors - CVCC Approval and CVCC Placement Test Scores, and Approved Writing Sample; teacher recommendation and successful completion of the English 11 SOL reading and writing tests.

Year – 1 credit

Section 111 of Advanced Composition is designed to teach students to read, write, and think critically and analytically. An argument-based text is used to teach a persuasive, rhetorical writing style. Students will study writing models, discuss issues, and write papers using the various methods of argument. Students will also study grammar, style, and word choice. Students will purchase secondary texts to read, discuss, and analyze.

In 112, a college-level study of world literature is explored. Critical analyses, discussion, and a research paper are required. Students will also read classic literature for outside reading. Summer assignments will be given. .

DRAMA

Prerequisite – None

Semester – ½ credit

This course will introduce the student to all aspects of theatre, theatre jargon, production practices, and theatre games, formal presentations, and technical theatre.

THEATRE ARTS

Prerequisite – Drama

Semester – ½ credit

This intermediate course involves improvisation, theatre history, and performance. The student will perform formal scenes and participate in peer assessment. The course will focus on the study of famous actors, playwrights, and directors.

ADVANCED THEATRE ARTS

Prerequisite- Theater teacher recommendation.

Year – 1 credit

This course concentrates on direction, set design, and theater theory. Content also includes scene and advanced acting skills.

TECHNICAL THEATRE

Prerequisite - None

Semester – ½ credit

This class will focus on the technical aspects of a production. Students will learn the responsibilities of stage managing, lighting, set design, carpentry, electricity, props and grip. The course will allow students to explore the opportunities available in theatre.

TECHNICAL THEATRE II

Prerequisite – Technical Theatre I

Semester – ½ credit

Students will be involved in the technical aspects of theatre with a more concentrated study of design concepts. Students would design and implement their set creation, light plot, or sound plot to be a practical application used in productions at Amherst County High School.

ACTING FOR THE CAMERA

Prerequisite – Audition required

Year -1 credit

This class uses the elements of art and the principles of design as a foundation for exploring visual concepts and process. This course will address editing, filming, directing, special effects, and audio recoding, and editing. The course intent is to provide the school with a professional grade newscast, reporting the news of Amherst County High School.

SPEECH

Prerequisite - None

Semester - ½ credit

Content includes instruction and practice in clarity of oral expression, logical reasoning, and proper organization of material. The students will learn to prepare and deliver speeches. Students who are enrolled will participate in district activities.

ADVANCED SPEECH

Prerequisite – Speech

Semester –1/2 credit

The course is designed to enhance and refine skills learned in Speech. The focus will be on advanced skill levels in oral expression, logical reasoning, and organization. The student will prepare and deliver formal presentations as well as participate in district activities.

MYTHOLOGY

Prerequisite - None

Semester – ½ credit

Content includes study of classical mythology, as well as Norse, Celtic, and Egyptian myths and legends. Also covered in the course are fairy tales, American Indian mythology, and legends of King Arthur.

YEARBOOK

Prerequisite –Students should have proficient writing skills and at least a B average in previous English classes. Teacher recommendation and application required.

Year – 1 credit

The content includes preparation, design, editing and publication of the yearbook.

Students may take this course each of four years for one credit each year.

JOURNALISM

Prerequisites - Students should have proficient writing skills and at least a B average in previous English classes.

Year – 1 credit

This course is an introduction to the news media. Study includes the history of the press and censorship. Emphasis will be placed on writing articles for publication.

Students may take this course each of four years for one credit each year.

CREATIVE WRITING

Prerequisite - None - Keyboarding recommended

Semester – ½ credit

This class emphasizes student writing. Students will receive instruction in critiquing and selecting literary work, magazine layout, and the publication of THINK.

COLLEGE PREP

Prerequisite - Students should have completed English 9 and 10 and Geometry.

Enrolled in Grade 11

Semester – ½ credit

This class is divided into two 9-week blocks. There will be 9 weeks of verbal preparation and 9 weeks of math preparation for PSAT and SAT. Emphasis will be placed on improving scores of the verbal and math sections of the SAT. Algebra I and Geometry will be reviewed. Concepts are reviewed, not introduced. Both math and verbal reviews will use *Peterson's SAT Success*. This course is for college bound 11th grade students.

FOREIGN LANGUAGE _____

SPANISH I

Prerequisite

Teacher Recommendation

Year – 1 credit

In Spanish I students learn the basics of reading, writing, understanding, and speaking Spanish. Students acquire a basic vocabulary for daily use and gain an understanding of some of the cultures and customs of the Hispanic world. Students communicate orally and in writing using simple structures and vocabulary. They practice listening skills with the aid of taped recordings and videos of native speakers.

SPANISH II

Prerequisite - Spanish I

Teacher Recommendation

Year – 1 credit

Students review and add to the four language skills learned in Spanish I. Listening, speaking, reading, and writing are taught concurrently with the culture of Spanish-speaking people. Emphasis is on the use of the language. A more formal study of grammar

reinforces skills already learned in Spanish I. Visuals, tapes, and records supplement the textbook.

SPANISH III

Prerequisite - Spanish II
Teacher recommendation
Year – 1 credit

Spanish III continues the four basic language skills with added emphasis on reading and writing.

Independent reading, writing and conversation are encouraged. An understanding of the people and culture of Spanish-speaking countries is stressed.

SPANISH IV

Prerequisite - Spanish III.
Teacher Recommendation
Year – 1 credit

In Spanish IV students work to increase the skills of reading, speaking, listening, and writing. Students read a variety of works by Hispanic authors, write on different topics using a variety of tenses, and gain a deeper understanding of Hispanic culture. Grammar learned in previous years of Spanish is reviewed and amplified, and vocabulary is strengthened and expanded.

SPANISH V

Prerequisite - Spanish IV.
Teacher Recommendation
Year – 1 credit

Students who elect to take Spanish V should be able to work independently and should have a firm background in the basics of Spanish grammar, reading, and writing. Students read and discuss modern literary works by Hispanic authors and write compositions based on the readings. Grammar concepts are reviewed, and additional concepts are added, with written work showing the application of grammatical skills. Classroom discussions provide opportunities for speaking practice, and the use of English is limited.

FRENCH I

Prerequisite –
Teacher recommendation
Year – 1 credit

The four language skills - listening, speaking, reading, and writing are taught concurrently with an introduction to the culture of the French-speaking people. Use of the language is emphasized. Students spend much class time speaking and listening to French. The textbook is supplemented with workbooks, videos, and tapes.

FRENCH II

Prerequisite - French I
Teacher recommendation
Year – 1 credit

Students review and add to the four language skills begun in French I. Listening, speaking, reading and

writing are taught concurrently with the culture of French-speaking people. Again, emphasis is on the use of the language. A more formal study of grammar reinforces skills already learned in French I. Workbooks, tapes, and videos supplement the textbook.

FRENCH III

Prerequisite - French II
Teacher recommendation
Year – 1 credit

French III continues the four basic language skills with added emphasis on reading, writing and conversation. An understanding of the people and culture of French-speaking countries is stressed.

FRENCH IV

Prerequisite - French III
Teacher recommendation
Year – 1 credit

French IV provides a wide variety of experiences in all aspects of language learning: vocabulary development, reading comprehension, literature, civilization and culture, grammar review and enrichment, and everyday conversation.

FRENCH V

Prerequisite - French IV
Teacher recommendation
Year – 1 credit

This course will continue the development of written and conversational skills in French. Grammar will focus on areas which are covered in the French SAT II. Students are required to spend a considerable amount of time working independently.

HEALTH & PHYSICAL EDUCATION

HEALTH & PE - 9

Prerequisite – None
Year – 1 credit

Topics include appearance, bone and muscles, food, tissue maintenance, sense organs, nervous system, heart, vessels, and blood. Activities include physical fitness, weights, basketball, volleyball, soccer, track, softball, and group games.

HEALTH & PE 10

Prerequisite - H& PE 9
Year – 1 credit

Topics include behavior, emotions, mental disorder, alcohol and drug abuse, tobacco, safety, first aid, and public health. Activities include softball, tennis, volleyball, soccer, track, table tennis, and group games.

DRIVER EDUCATION

Prerequisite – None (non-credit)

This course is taught in conjunction with H & PE 10 and includes instruction on developing proper driving techniques and attitudes essential to safe driving.

Emphasis is placed on traffic knowledge, manipulative skills, and a proper attitude toward the use of motor vehicles. Students will be provided the opportunities to practice their driving skills on the range after school. Students are selected for on the range driving according to their birth date.

WEIGHT TRAINING AND CONDITIONING

Prerequisite – Grades 9-12

PE/Wt. Training Instructor Recommendation

Semester – ½ credit per semester

Students may take 2 semesters per year for 4 years

This course will concentrate on strengthening students physically and mentally. The main concentration will be on the correct technique of lifting, the cycling of different routines and plyometrics.

MATHEMATICS

ALGEBRA SOL ENRICHMENT

SOL Test

Prerequisite – Algebra I or Algebra I

Part I and Part II. Administration/Counselor

Recommendation

Semester – ½ credit

This course is designed for students who have successfully completed Algebra I but have not successfully completed the Algebra I End of Course Standards of Learning assessment. The course will use a hands-on approach to enhance the student's knowledge of algebraic concepts. Students will demonstrate proficiency in each Algebra I SOL. The goal of this class is that each student be able to relate algebra skills to real world applications and use these skills to solve problems. Graphing calculators and SOL resource materials will be used extensively. Emphasis also will be placed on familiarizing students with the end of course (EOC) test format and test-taking strategies in order to maximize their scores on the EOC Algebra I test.

ALGEBRA I PART I

Prerequisite – None

Year – 1 credit

This course is designed for students who need more time to develop skills with algebraic concepts. Emphasis will be placed on real-life applications using basic concepts, properties of numbers, algebraic expressions and sentences. Students will work on mastering the SOL's for Algebra I. This is the first course in a series of two.

ALGEBRA I PART II

SOL Test

Prerequisite - Algebra I Part I

Year – 1 credit

Students will review each of the algebraic concepts taught in Algebra I, Part I and continue the study of linear equations, polynomials, rational expressions and their application to real-life problems. This course will include each of the Algebra I SOL's and culminate in students taking the Algebra I SOL test.

ALGEBRA I

Prerequisite –Teacher

SOL Test

recommendation

Year – 1 credit

Algebra I provides the foundation for the more advanced mathematics courses. It broadens and strengthens the basic concepts of arithmetic and provides an understanding of the terminology, notation, and symbolism of algebra. Content includes the basic language of Algebra, operations with real numbers, solving equations and problem solving, and the study of inequalities and related problems. The study of functions, rational and irrational expressions, and polynomials is included. Students will take the Algebra I SOL test at the end of the course.

COMPUTER MATHEMATICS

Prerequisite – Successful completion of Algebra I Part II. This class does not satisfy the Advanced Diploma requirement for mathematics.

Year – 1 credit

This course will include learning that incorporates computer math standards of learning (SOL's) using the graphing calculator as the primary computing device, giving students the opportunity to think through math problem solving through computer programming while avoiding the need to be in a computer lab.

GEOMETRY PART I

Prerequisite - Algebra I, or Algebra I, Part II; successful completion of the Algebra I SOL test or concurrently enrolled in Algebra Enrichment

Year – 1 credit

Geometry Part I reviews the skills and concepts taught in Algebra I, and incorporates those skills in the study of geometry. Each of the geometry Standards of Learning will be introduced. Topics will include lines and angles, proofs, parallel and perpendicular lines and planes, triangles, polygons, circles, constructions, and coordinate geometry.

GEOMETRY PART II

Prerequisite - Geometry Part I

SOL Test

Year – 1 credit

This course will reinforce the skills taught in Geometry Part I. Emphasis will be placed on mastery of the Standards of Learning. Topics will include lines and angles, proofs, parallel and perpendicular lines and planes, triangles, logic, polygons, circles, constructions, and coordinate geometry, vectors and three-dimensional solids.

GEOMETRY

Prerequisite

Teacher recommendation

Year – 1 credit

Geometry extends the skills and concepts developed in Algebra I through the study of concepts involved with plane and solid figures. Topics include a review of real numbers, segment and angle measurement, angle relationship, parallel and perpendicular lines, convex polygons, and congruent triangles. Also emphasized are circles, construction, coordinate geometry, area and volumes of solid figures.

ADVANCED GEOMETRY

Prerequisite Successful completion of Algebra I and teacher recommendation.

Year – 1 credit

Course content will include concepts taught in regular geometry with more emphasis on proofs, coordinate geometry, and area and volume of polygons. More real world applications will be incorporated into this course.

ALGEBRA II

Prerequisite- Algebra I and Geometry and successful completion of Algebra I and Geometry SOL test.

Year – 1 credit

Algebra II is for students who wish to advance their mathematics knowledge in algebraic concepts at a moderate pace without the study of trigonometry. Topics include linear equations and inequalities, problem solving, polynomials and factoring, rational expressions, conic sections, arithmetic and geometric progressions. The math department recommends a grade of "C" or above in Algebra I and successful completion of Geometry.

ALGEBRA II/TRIGONOMETRY

Prerequisite-

Teacher recommendation

Year – 1 credit

Algebra II/Trig will present a wider variety of topics and a more in-depth approach than Algebra II with emphasis on analytic geometry and trigonometry. It will include a transformational approach to graphing functions. Graphing utilities will be used to enhance understanding through modeling and aid in the study of functions and their inverses. Students will be required to have a scientific or graphing calculator. This course is for the student who has demonstrated superior performance in Algebra I and Advanced Geometry and is able to work at an accelerated pace.

SOL Test

SOL Test

SOL Test

SOL Test

ALGEBRA III

Prerequisite T

Teacher recommendation.

Year – 1 credit

Content includes the review of topics from Algebra II and Geometry and introduces new topics such as trigonometry, conics, matrices, series and limits. The course is for students who intend to continue their study of mathematics in college. Students may not enroll in Algebra III after receiving credit for Math Analysis.

PROBABILITY AND STATISTICS

Prerequisite

Teacher recommendation

Year – 1 credit

Students in this course will learn the vocabulary, symbols, concepts, and statistical formulas and procedures used in statistical studies in order to read and understand these studies, conduct research, and become better informed consumers and citizens. They will learn to analyze graphical displays and numerical characteristics of data. They will describe methods of data collection and will plan and conduct a survey. Students will apply hypothesis testing procedures. They will use data to make predictions and study distributions, using concepts of probability. Graphing calculators such as the TI-83 or TI-83 Plus and computer programs will be used to help with calculations.

MATH ANALYSIS

Prerequisites

Teacher recommendation

Year – 1 credit

Math Analysis is a pre-calculus course emphasizing the characteristics of functions, complex numbers, conic sections and logarithms. Graphing utilities will be used by students and teachers to enhance the understanding of realistic applications, solving equations and verifying equations.

CALCULUS I

Prerequisites - Math Analysis with minimum grade of B,

CVCC approval and CVCC Placement Test scores by June 1st. 5 CVCC College Credits. Also, successful completion of all math SOL tests and teacher recommendation.

Year – 1 credit

This course includes a review of trigonometry, trig identities, and solving trig equations. Calculus studies limits, the derivative, application of the derivative and integration, application of integration, volumes of revolution, infinite series, parametric equations and polar coordinates.

Dual Enrollment

MUSIC

All band classes at the high school are performance oriented. Participation in performances and rehearsals outside school hours is required. Non-band students are eligible to try out for marching band as flag corp members.

Chorus classes at the High School include both introductory and performance oriented programs. Several activities require participation in performance and rehearsals during outside school hours.

CONCERT BAND

Prerequisite – Completed Middle School band.

Year – 1 credit

This course is open to students who have completed the middle school band program. If not, students must audition or have the recommendation of the band director to enroll. The primary focus of this course is on the performance of Grade 4 concert music.

JAZZ ENSEMBLE

Prerequisite – Must be a part of Advanced Band class

Year – 1 credit

This course is open to students who have completed the middle school band program. If not, students must audition or have the recommendation of the band director to enroll. The primary focus of this course is on the jazz performance. We will learn and study styles complementary to the jazz band. Some after school rehearsals will be required.

INTRODUCTORY MUSIC THEORY

Prerequisite – Beginning piano with minimum grade “B” or teacher recommendation

Semester – ½ credit

This course is for students who want to have a basic knowledge of music. It will involve the reading, studying, and analyzing of music. A workbook and staff paper will need to be purchased for this class. Prior musical experience is helpful but not necessary.

WIND ENSEMBLE

Prerequisite – Audition and Teacher Recommendation

Year – 1 credit

This class will focus on advanced music and members will be required to participate in the marching band.

PERCUSSION CLASS (Drums and Mallets)

Prerequisite: Play percussion in the middle school band (drums) or teacher recommendation.

Year – 1 credit

The class will focus on marching, concert and percussions ensemble music.

FLAGS

Prerequisite – Audition

Semester – ½ credit

Non band student who audition for the flag corps of the marching band will need to sign up for this course. After the regular marching season is over, we will focus our efforts on an “indoor guard” performance.

BEGINNING PIANO

Prerequisite – None

Semester – ½ credit

A short history of the piano will be taught as well as note names and placements on the piano and rhythms. A method workbook will be individually purchased and used in conjunction with piano sheet music in order to be able to play in a final class recital.

ACHS CHORUS

Prerequisite – None

Year – 1 credit

This is a general music/chorus workshop class offered to the student who enjoys singing but may not have extensive performing experience or the time to participate in many extracurricular concerts. Singing and performance techniques, including choreographed movement, beginning theory and analysis of music, and a general overview of music development through history will be studied. Careers in music will also be explored. Participation in a concert performance may be a requirement for the class grade. This class can be repeated for credit.

VOCAL ENSEMBLE – AMHERECHOS

Prerequisite- Audition and teacher recommendation.

Year – 1 credit

An audition is necessary for this advanced-level choir. Choreographic and performance techniques for concert and show choir will be the main emphasis of study. Time will be given to the study of music theory, analysis, history and careers particularly as they affect the studied repertoire. Participation in all concerts will be a mandatory part of the grade.

TREBLE ENSEMBLE – ADVANCED WOMEN’S ENSEMBLE BELLES OF AMHERST

Prerequisite- Audition and Teacher Recommendation; Grades 9-12 female students

Year – 1 credit

This class can be repeated for credit. Vocal and choreographed movement techniques will be a main emphasis of study, and will be developed through the use of different styles of music arranged for female voices. Time will be given to the study of music theory, analysis, history and careers, particularly as they affect the studied repertoire. Participation in extracurricular performances is a requirement for the class grade.

SCIENCE

EARTH SCIENCE

SOL Test

Prerequisite – None

Year -1 credit

Earth Science is a foundation science that helps students understand the processes that continue to shape our planet. The Virginia Standards of Learning detail the areas of geology, astronomy, meteorology, and oceanography that are to be covered. Topics include studies of space objects, fossils, weathering, soil and cave formation, internal and surface features of earth, weather systems, plate tectonics, and the physical and biological characteristics of the oceans. The interpretation of maps, charts, and graphs is stressed. The development of logical thought process is encouraged through the performance of appropriate labs and activities in which data is collected and analyzed.

SCIENCE ENRICHMENT



Prerequisite – None

Semester – No credit

This course is designed for students who have successfully completed the science SOL courses but have not successfully completed the Standards of Learning (SOL) Assessment. Standards of Learning objectives will be enriched. Emphasis will also be placed on familiarizing students with the end of course (EOC) test format and test-taking strategies in order to maximize their scores on the EOC science SOL tests.

ADVANCED EARTH SCIENCE

Prerequisite



Teacher recommendation.

Year – 1 credit

This course is designed for students who are highly motivated and desire a more detailed study of geology, astronomy, meteorology, and oceanography. The Virginia Standards of learning designated for Earth Science will be covered. In addition, students will be expected to complete in-depth study of selected topics through at least two of the following three assignments: a minimum of one research paper, an analysis of one scientific work, and/or an experimental research project

BIOLOGY

Prerequisite - Earth Science



Year – 1 credit

Through laboratory work, students discover the parts and processes of living things and their interactions with each other. Representative organisms from the six kingdoms are examined and unifying concepts such as cell structure, genetics, evolution, reproduction, and life characteristics are explored. The course gives students a better understanding and appreciation of their physical selves and the world around them.

ADVANCED BIOLOGY



Prerequisite – Minimum grade of “B-” in Earth Science or concurrent enrollment in Advanced Earth Science and teacher recommendation.

Year – 1 credit

This course is designed for highly motivated students who can quickly grasp complex material. The Virginia Standards of Learning designated for biology will be covered; however, students will be expected to complete in-depth study of selected topics through at least two of the following: research paper, analysis of one scientific work, and/or an experimental research project.

ADVANCED BIOLOGY II/ECOLOGY

Prerequisite- Minimum grade of B- in Advanced Biology and teacher recommendation

Year-1 credit

This course is designed for highly motivated students who desire a more in-depth study of such ecological topics as ecosystems, matter and energy transfer, and community interactions. The causes and effects of pollution, habitat destruction, and resource depletion on our planet will be analyzed in detail. Students will be required to read and write extensively. A variety of research projects on selected topics will be an integral part of the course.

BIOLOGY II/ECOLOGY

Prerequisite – Biology

Year – 1 credit

This course is the study of how organisms interact with each other and with the environment. Major topics to be investigated include terrestrial and aquatic ecosystems, matter and energy transfer, and community interactions. The effects of pollution, habitat destruction, and resource depletion on our planet and its organisms will also be studied.

AP BIOLOGY

Prerequisites-Minimum grade of “B-” in both Advanced Biology and Chemistry with the successful completion of each accompanying SOL test; minimum grade of “B-” in Algebra I, Geometry and Algebra II and the successful completion of each accompanying SOL test.

Year – 1 credit

The AP Biology course is designed to be the equivalent of a college introductory course for university-bound seniors. The college course in biology differs significantly from the usual first high school course in biology with respect to the type of textbook used, the range and depth of the topics covered, the kind of laboratory work done by students, and the time and effort required of students. The AP Biology course aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. An integral part

of the course is the completion of an independent experimental research project. Summer assignments will be given. If not completed by the due date, school counseling will reschedule the student.

CHEMISTRY

Prerequisite –Minimum grade of “C” in Algebra I, Geometry, Algebra II, Biology, and teacher recommendation.

SOL Test

Year – 1 credit

This course for college-bound students is based on the study of the nature and properties of matter. Aspects of chemistry to be studied include atomic structure in relation to the periodic table, types of bonds, chemical reactions, mole-based calculations, kinetic theory and gas laws. Emphasis is placed on problem-solving techniques and higher-level thinking skills.

Laboratory emphasis is on learning safe lab skills, data collection and problem solving. Chemistry is a math-oriented class.

CHEMISTRY II

Prerequisite - Chemistry and Algebra II with a minimum grade of B in both

Year – 1 credit

This course is recommended for college-bound students with plans for a science or health major and an aptitude for mathematics. Emphasis is placed on independent problem-solving skills and analysis of laboratory data. Topics are covered in greater depth than in Chemistry. Aspects of chemistry to be studied include properties of solutions, reaction rates, thermodynamics, equilibrium, theories of acids and bases, redox reductions, and electrochemistry. An independent research project is required.

PHYSICS

Prerequisite - Algebra II

Year – 1 credit

Physics develops awareness of the mathematical nature of laws underlying the physical world through study of a traditional sequence of topics: motion, heat, waves, electricity and the atom. The understanding of these principles is reinforced through lab experiences and problem solving using techniques of algebra and geometry. This course is appropriate for college-bound students and students preparing for a technical career. Completion of an independent project is required.

SOCIAL STUDIES

Students will not be permitted to take more than one (1) social studies course such as U.S. History and U.S. Government in the same year. Exceptions may be considered in the senior year.

WORLD GEOGRAPHY

SOL Test

Prerequisite –None

Year – 1 credit

World Geography emphasizes man's relationship with his physical and cultural environment and the development of basic geographical skills and concepts. The cultural areas studied include Southwest Asia, Europe, Africa, Latin America, Russia, The Commonwealth of Independent States, Japan and China.

The focus of this course will be on the five themes of geography, location, place, relationships within places, movement, regions, and will allow students to find answers to questions about the world. Through the study of geography, students will explore and discover the processes that shape the earth, the relationships between people and environments, and the connections between people and places. Geography will help students to build a global perspective and to understand the connections between global and local events.

ADVANCED WORLD GEOGRAPHY

SOL Test

Prerequisite – World History I and English 8 with a grade of “B” or above and a pass score on the World History I and English 8 SOL tests.

Teacher recommendation

Year – 1 credit

The focus of this course will be five central themes of geography: location: place: relationships within places, movement and regions. How they form and change. Special emphasis will be placed on the understanding of the complete interrelations among the cultural regions of the earth. Students will be expected to interpret maps, charts, graphs, and analyze pertinent data. World problems, major events and consequences will be studied through the use of available mass media materials. A year-long project and research paper will be required.

This class is designed for students who have exceptional aptitude and a keen interest in the areas of reading and writing. Students who select to take this class should be highly motivated, have maintained an A or B average in an advanced language arts and social studies class, and have the recommendation of their eighth grade social studies and language arts teachers.

WORLD HISTORY PART II - 1500 AD TO THE PRESENT

SOL Test

Prerequisite – None

Year – 1 credit

Students will study the history and geography of the world from the late Middle Ages (1500 AD) to the present with an emphasis on Western Europe.

SOL Test

Geographic influences on history will be explored including political boundaries that developed with evolution of nation-states. This course will cover ways in which scientific and technological revolutions created new economic conditions that in turn produced social and political changes. The people and events of the Nineteenth and Twentieth Centuries will be emphasized for their strong connection to contemporary issues. Students will study historic events, ideas, issues, and people from 1500 AD to present.

ADVANCED WORLD HISTORY PART II

Prerequisite – Successful completion of Advanced World Geography and teacher recommendation.

Year – 1 credit

Projects, writing assignments, additional reading assignments and research are requirements of this course.

Students will examine eras of western civilization from early ages to the nuclear age, and the relationship among social, economic, and geopolitical developments in the times and places in which they occurred. Students will use the process of conceptual and critical thinking to analyze historical and contemporary issues. Students are encouraged to think independently while developing group processing skills.

UNITED STATES & VIRGINIA HISTORY



Prerequisite – 11th grade course

Year – 1 credit

This course presents in chronological sequence the political, economic, social and cultural development of life in the United States with special emphasis on life in Virginia. Units of study include the Revolutionary War, the Constitution, the Civil War, the Industrial Age, the Roaring Twenties, the Depression and Post-Depression, and America as an international power.

ADVANCED U.S. AND VIRGINIA HISTORY



Prerequisite – Successful completion of two of the following and each corresponding SOL assessment: Advanced World Geography, World History I, Advanced World History II. Teacher recommendation

Year – 1 credit

This course provides a more in depth coverage of the political, economic, social and cultural development of life in the United States with special emphasis on life in Virginia. Because this course requires more extensive writing, research, and reading, it is recommended for college bound students.

AP U.S. HISTORY



Prerequisite – Successful completion of two of the following and each corresponding SOL assessment: Adv. World Geography, World History I, Adv. World History II. Teacher recommendation

Year – 1 credit

Amherst County High School's Advanced Placement History follows the national Advanced Placement curricula and students in this course have an opportunity to earn college credit. Students are required to read and write extensively, interpret primary sources and write document-based essays, and complete an independent research project every nine weeks. Summer reading and projects are required. If not completed by the due date, school counseling will reschedule the student into Advanced U.S. and VA History.

UNITED STATES AND VIRGINIA GOVERNMENT

Prerequisite – 12th grade status

Year – 1 credit

This course examines the origins and foundations of American constitutional government, the structure and powers of government on the federal, state and local levels, and the policymaking process at all levels of government. Students will also examine the electoral process, civil rights and liberties, and comparative governments and economics with special emphasis on the free enterprise system. Attention will be given throughout the course to current issues and to the development of skills and attitudes needed for effective participation on American civic life.

ADVANCED U.S. AND VIRGINIA GOVERNMENT

Prerequisite – Successful completion of three of the following and each corresponding SOL test:

Advanced World Geography, World History I, Advanced World History II, Advanced US/VA History.

Year – 1 credit

This course would be a continuation of study for students who take Advanced Geography, Western Civilization, and Advanced U.S. History. This course is designed for college bound students. Course requirements include writing, research, and reading to prepare students for college.

AP GOVERNMENT

Prerequisite – Successful completion of three of the following and each corresponding SOL assessment:

Adv. World Geography, World History I, Adv. World History II, and Adv. US/VA History. Teacher recommendation

Year – 1 credit

This course is designed for students who have a keen interest in American government and who desire a chance to earn college credit in high school. Students are expected to read and write with depth and understanding. Supplementary reading and writing assignments, including a summer project are required. If not completed by the due date, school counseling will reschedule the student into Advanced Government.

LAW RELATED EDUCATION

Prerequisite – Grade 10-12.

Semester – ½ credit

An opportunity is given for students to become actively involved with the legal community. Guest speakers inform the students of their legal responsibilities and then students take part in a mock trial. Students also become familiar with their legal rights as consumers.

SOCIAL STUDIES SOL ENRICHMENT

Prerequisite - Administration/Counselor Recommendation

Semester – non-credit

This course is designed for students who have successfully completed a social studies End of Course subject but have not successfully completed the accompanying End of Course Standards of Learning Assessment. Standards of Learning objectives will be enriched, and emphasis will be placed on familiarizing students with the end of course (EOC) test format and test taking strategies in order to maximize their scores on the EOC exam.

SOCIOLOGY

Prerequisite – grade 10 - 12

Semester – ½ credits

Sociology is the scientific study of human society and social behavior. In this one-semester elective, students will become familiar with the basic concepts in sociology and the basic principles of sociological research. Topics include, but are not limited to: culture, social groups, socialization and personality development, social change, crime, and major social institutions such as family.

ETHNIC MINORITY STUDIES

Prerequisite - None

Semester- ½ credit

This course is a social studies elective that examines the influence of the major ethnic groups and their history in the U.S. Emphasis is placed on the appreciation of group diversity and individual accomplishment. The course provides in-depth coverage of the role each group plays in the development of our national culture. **Offered in alternating years with African American Studies.**

ECONOMICS

Prerequisite – Grade 11-12

Semester – ½ credit

This course is for juniors and seniors, Economics is a one-semester course that will educate and inspire students to value free enterprise, business, personal finance, money management, and entrepreneurship. Concepts and skills include micro, macro, and international economics, supply and demand, economic systems, inflation, deflation, scarcity, opportunity costs, saving and investing, consumer issues, analysis, interpretation, and research.

COMPARATIVE RELIGION

Prerequisite - None

Semester – ½ credit

The course provides an overview of the world's religions. Students will not only examine the history and spread of religions, but will also learn about the beliefs, symbols, and distinguishing features of each. Among the religions studied in this class are Hinduism, Jainism, Buddhism, Taoism, Confucianism, Shintoism, Zoroastrianism, Judaism, Christianity, Islam, Sikhism, as well as other religious movements.

AFRICAN AMERICAN STUDIES

Prerequisite - None

Semester – ½ credit

This course is a survey of African –American history from 1620 to the present. Topics that students will explore include: the cultural, political and economic impact of slavery; segregation, the struggle for political, social and economic equality; and the status of African-Americans in contemporary America. Emphasis will be given to the contributions of Africans and African-Americans to the cultural development of the United States. Student presentations and Internet activities will supplement teacher prepared lessons. **Offered in alternating years with Ethnic Minority Studies.**

FRESHMAN ACADEMY

HUMAN RELATIONS/STUDY SKILLS

Prerequisite- 9th Grade Level, Teacher

Recommendation

One Semester- ½ credit

Students will have training and practice in academic, social and emotional skills. Topics may include time management, study skills, organization, communication, problem solving, decision making, career development, character education and skills in relationships, leadership, technology, coping as well as academic planning and community service.



CAREER PATH OF BUSINESS

INTRODUCTION TO BUSINESS

Prerequisite - None

Semester – ½ credit

Introduction to Business is an elective for ninth and tenth grade students. It is designed to focus on business and government roles in the economy. Students will study personal budgeting, credit, loans, bank accounts, small business opportunities and personal investments.

ACCOUNTING

Prerequisite – Keyboarding; grades 11-12

Year – 1 credit

Students learn and apply the basic principles, concepts, and practices of acceptable accounting procedures using a manual system and an automated system. Students analyze transactions, prepare and interpret financial statements. Business simulations are used. Homework is given regularly and is an important part of learning the material.

ADVANCED ACCOUNTING

Prerequisite - Accounting I

Year – 1 credit

Advanced Accounting is a course designed to utilize microcomputers to automate, analyze and interpret business applications including payroll, inventory, accounts payable, and accounts receivable. Management of financial records through various business activities, partnership and corporate accounting are also included. This course is recommended for students who have excelled in Accounting I.

COMPUTER INFORMATION SYSTEMS

Prerequisite – Keyboarding Application or Word Processing

Year – 1 credit

Students learn and apply business applications using spreadsheets, graphics, databases and word processing. Each student is to get a recommendation of his/her keyboarding/word-processing teacher before registering. Keyboarding speed of 25 words per minute is recommended and the successful completion of Algebra I.

ADVANCED COMPUTER INFORMATION SYSTEMS

Prerequisite - Successful completion of Computer Information Systems

Semester – ½ credit

Advanced CIS is the capstone course for the computer offerings in the Business Department. Students will

continue to work with Windows 98, Access, Excel and Microsoft Word.

DESIGN, MULTIMEDIA, AND WEB TECHNOLOGIES

Prerequisite – Grades 10-12

1. High School Keyboarding Applications or Word Processing.
2. Successful completion of IT Fundamentals or Computer Information Systems

Semester – ½ credit

Design, Multimedia, and Web Technologies will enable students to develop proficiency in creating desktop publications, multimedia presentations/projects, and websites 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. Under the direction of the instructor, students will learn to maintain the school's websites. Completion of this course may prepare students for industry certifications.

ADVANCED DESIGN, MULTIMEDIA, AND WEB TECHNOLOGIES (18 weeks)

Prerequisite: Design, Multimedia, and Web Technologies

Grades 10-12

Semester – ½ credit

Advanced Design, Multimedia, and Web Technologies will enable students to develop advanced skills in creating interactive media, websites, and publications for print and electronic distribution. Students work with sophisticated hardware and software applying skills learned to real-world projects. Under the direction of the instructor, students will maintain the school's websites. Completion of this course may prepare students for industry certifications.

BUSINESS LAW (18 weeks)

Prerequisite – Grades 10-12

Semester – ½ Credit

Business Law introduces students to the foundations of the American legal system as they explore economic and social concepts as they relate to legal principles and to business and personal laws. Topics examined include contracts, cyber law, criminal law, consumer protection, wills/estates, property law, civil law, employment law, unions, and credit obligations. Students discuss and analyze real legal cases.

FINANCE

Prerequisite - None

Semester – ½ credit

Juniors and seniors who will be seeking employment upon graduation as well as college-bound students are

encouraged to enroll. Students explore the many facets of financial decision-making involved in daily life. Skills in money management, banking, insurance, credit, and taxes will be developed. Students will also study other financial topics such as the stock market, investing and careers in business.

KEYBOARDING APPLICATIONS

Prerequisite - None

Semester – ½ credit

Keyboarding Applications is a course offered to all students. They develop touch-keyboarding skills with an emphasis on the application to produce personal and business letters, outlines, manuscripts, and tabulated reports. Keyboarding Applications is a required foundation course.

WORD PROCESSING

Prerequisite –8th grade Keyboarding (Touch Keyboarding recommended)

Semester – ½ credit

Students develop intermediate to advanced level word processing skills using a variety of software functions. Students gain competence integrating other application software (database and/or spreadsheets) into word processing activities. Classroom experiences also provide for skill development in communications.

OFFICE SPECIALIST

Prerequisite – None

Year – 1 credit

Students develop skills in areas including keyboarding and computer skills, communication skills, using telecommunications, and preparing for employment.

RECORDKEEPING

Prerequisite – None

Semester – ½ credit

Students will develop business recordkeeping skills and reinforce general math skills that will enable them to keep accurate business and financial records. Students will learn to accurately record financial transactions and interpret financial data. Concepts and skills include budgets, credit, checking accounts, banking, and recordkeeping for retail sales and sales clerks. Students will participate in various recordkeeping and business projects. This course is recommended for freshmen and sophomores; however, it is an excellent general math course for any grade level.

ECONOMICS AND PERSONAL FINANCE

Prerequisite-None

Year- 1 credit

Recommended for Grades 10, 11, 12

The focus of this course will be to assist students with learning how to successfully manage their time, money and resources to become informed citizens in a

globally interdependent society. The course centers on the development of thinking skills such as analysis of real world situations, economic reasoning, decision-making and problem solving. Economics and Personal Finance is required for graduation beginning with the entering Ninth Grade class of 2010-2011

CAREER PATH OF HEALTH, HUMAN AND PUBLIC SERVICES

INTRODUCTION TO CULINARY ARTS

Prerequisite - None

Semester – ½ credit

Students will be exposed to careers in the food service industry, tools and small equipment, yeast breads, and quick breads. Students will have hands-on experience in the lab. This class is an introduction to the two-year culinary arts program.

CULINARY ARTS I

Prerequisite – Grade 10 or higher, but Introduction to Culinary Arts is highly recommended
2 credits - 2 periods

Culinary Arts I is a class that will expose students to the many facets of the Food Service Industry. It will include many hands-on activities including pastries, meats, and regional cooking techniques.

CULINARY ARTS II

Prerequisite – Culinary Arts I

2 credits – 2 periods

Culinary Arts II is a progression from Culinary Arts I. Students are exposed to an intensive in-depth look at meats, poultry, fruits, and vegetable cookery. The class will also cover customer service and restaurant management.

INTRODUCTION TO HEALTH CAREERS

Prerequisite – Grade 10 or higher

Semester – ½ credit

Introduction to Health Careers is a one-semester course that introduces the high school student to a variety of occupations currently offered in the health care field. Students will read about, discuss and interview personnel who are currently employed in health care positions. They will complete a project on a health career, and present their findings to classmates.

A major portion of the course involves learning about the different body systems and what they do. Students also explore ways for keeping body systems healthy, and they learn how to take blood pressure, pulse and respiration. Students learn communication skills, from developing a resume to conducting themselves in an interview, and they also learn about employability

skills and professionalism. Current events related to health care research or treatments are an integral part of the course.

NURSE AIDE EDUCATION

Prerequisite - None

Year – 2 periods – 2 credits

It is recommended that students take “Introduction to Health Occupations” prior to enrolling in the Nurse Aide course. Chemistry and Biology are also recommended. Students will submit an application and be interviewed by nursing faculty prior to being enrolled in the Nurse Aide course. It is strongly recommended that only students interested in a health career apply to take the Nurse Aide course.

Because of the interaction with nursing home residents during the clinical portion of the Nurse Aide course, a student’s behavior and prior discipline record will be examined before being considered for enrollment.

PRACTICAL NURSING PROGRAM

Prerequisites – Completion of all admission requirements, plus a satisfactory personal interview.

Recommended courses are Biology, Algebra I, Chemistry and Nurse Aide Education course prior to applying to the Practical Nursing Program.

Year I– 3 periods – 3 credits

The Practical Nursing Program is an intensified curriculum, preparing students in the classroom and clinical areas for the role of a licensed practical nurse in the State of Virginia. The program is open to the High School senior who has a scholastic record reflecting indicators of potential success in a program of this nature. The program includes a year of classroom instruction, with some clinical experience in the second semester. Classes are held the last four periods of the day. The student who successfully completes the first year of the PN program must acquire a high school diploma or GED before being eligible to advance to the second year of the program. Admission to the program requires a multi-step process, with final selection being determined by the faculty of the program. Application procedures begin in January preceding fall enrollment, with the selection process being completed by June 1st.

Admission and Enrollment requirements:

1. Students must secure and complete an application and return to the program director by March 30. (Applications available Jan. 1st).
2. An official high school transcript or GED score (composite of 45 or greater) must be sent directly to program director.
3. Students are scheduled for a personal interview with a faculty member.

4. Students take a pre-entrance test to be scheduled after completion of steps 1-2. The interview and testing are done on the same day.
5. A letter notifying the student of the admission decision is sent by June 1st.
6. Upon notification of acceptance, applicable registration fees to be paid by June 30th.
7. Further information can be obtained by contacting program director at the high school.

SPORTS MEDICINE

Prerequisite - Health & PE 9; 10th grade status

Semester – ½ credit

This course is designed for students interested in the medical profession and athletics. The material presented will combine medical principles with the athletic setting. Specific topics will include human anatomy, injury prevention and identification, medical documentation, first aid, and rehabilitation guidelines. Special topics/current issues in health care will also be discussed. Students will participate in hands-on learning activities and be expected to perform practical skills.

SPORTS MEDICINE II

Prerequisite – Sports Medicine I, and a genuine interest in healthcare; 11th or 12th grade status.

Semester – ½ credit

This course is designed as an advanced look at the treatment, evaluations, and rehabilitation of athletic related injuries. Topics include and are not limited to medical considerations. The student will learn advanced first aid and life support techniques. Students will be required to work in the Athletic Training Room and may choose to assist in the coverage of practices and games.

EMERGENCY MEDICAL TECHNICIAN-BASIC (EMT-B)/CVCC

Prerequisite: Enrolled in 11 or 12th grade, between ages 16-18;

enrolled per policy for dual enrollment at CVCC; TB skin test as required by the State Board of Health; teacher recommendation.

Year - 1 credit

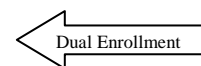
This year-long course provides basic emergency, pre-hospital care to patients involved in accidents, injuries, or sudden illness. Course consists of 110 classroom hours and 10 clinical hours to be completed outside of class. To obtain certification a student must pass EMT-B course as well as state written and practical exam to be taken outside of classroom. Students are encouraged to volunteer with local EMS agencies.

RESOURCE MANAGEMENT

Prerequisite- none

Semester – ½ credit

Grades 11 and 12



Students focus on managing resources to achieve individual goals; making informed consumer choices; creating and maintaining a living environment that supports the well-being of individuals; making decisions, managing a household, and researching careers. Teachers highlight the basic skill of math, science, and communication when appropriate in the content.

INDIVIDUAL DEVELOPMENT

Prerequisite –Grades 11 - 12

Semester – ½ credit

Students focus on encouraging personal potential of self and others; managing stressful situations, forming healthy caring relationships with family members and peers, and choosing responsible ways to express oneself. Teachers highlight basic skills of science and communication when appropriate in the content.

Community service hours will be required.

PARENTING I

Prerequisite – None

Semester – ½ credit

Students enrolled in Parenting I will discuss all aspects of parenting including parent readiness and growth and development of children(pre-natal to infancy). Practical experiences in child observation and interviewing parents are essential parts of the course. Teen pregnancy prevention, parental responsibility and community resources are emphasized. Teachers highlight the basic skills of math, science, and communication when appropriate in the content.

PARENTING II

Prerequisite –Grade 10 - 12

Semester – ½ credit

This course will examine developmental stages of children from birth to age five. Parenting styles and techniques, safety of children, importance of play, proper nutrition, and child care for each age group will be discussed. Projects and observations will be an integral part of the course. Students interested in any type of career dealing with children will find this course helpful.

INTRODUCTION TO FASHION DESIGN AND MERCHANDISING

Prerequisite -None

Semester – ½ credit

The fashion design and merchandising competencies focus on identifying and exploring the individual careers within the fashion design, manufacturing, and merchandising industry. Units of study include color, design, wardrobe planning and maintaining, shopping and advertising expertise. Teachers highlight the basic skills of math, science, and communication when appropriate in the content.

CAREER PATH OF AGRISCIENCE, ENVIRONMENT, AND NATURAL RESOURCES _____

APPLIED AGRICULTURAL CONCEPTS

Prerequisite - None

Semester – ½ credit

This course has been designed to meet the needs of students who have limited or no agricultural background or experience. Fundamental agricultural competencies needed for rural or urban living form the basis of the course. Areas of instruction include meat grading and selection, and maintenance of home appliances and equipment: additional competencies in the study of soil fertility and in cultural practices for shrubs, lawns, gardens, and fruit trees may be incorporated. Leadership development activities are included in the course content, and participation in FFA activities is encouraged.

INTRODUCTION TO NATURAL RESOURCES

Prerequisite – Grade 10 or above

Year – 1 credit

Introduction to Natural Resources is designed as a one-year, single-period occupational preparation course. The course assists students in developing knowledge and skills required for employment in occupations in forestry and wildlife management, outdoor recreation, and air, soil, and water conservation. Because of the emphasis on different facets of natural resources management in different parts of the state, the course will vary to meet local needs and interests.

FORESTRY, WILDLIFE, AND SOIL MANAGEMENT

Prerequisite – Introduction to Natural Resources

Year – 1 credit

Forestry, Wildlife, and Soil management is designed as a one-year occupation preparation course. The course includes instruction in forest protection and harvesting, fishpond ecology and management, planning and operation of a hunting and fishing preserve, wildlife ecology and management, soil and water management systems, service and operation of large power equipment, and leadership training.

NATURAL RESOURCES BUSINESS MANAGEMENT

Prerequisite – Forestry and Wildlife or instructor permission

Year – 1 credit

Natural Resources Business Management is an occupational preparation course offered at the twelfth grade level. Much of the instruction may be individualized. Major learning areas include processing forest products and lumber grading, and determining the feasibility of establishing, financing, and managing a business such as forestry, outdoor recreation, wildlife, or urban conservation.

CAREER PATH OF INDUSTRIAL TECHNOLOGY

INTRODUCTION TO AUTO TECHNOLOGY

Prerequisite – Grade 10 or higher

Semester – ½ credit

Tools, safety, equipment use and an introduction to the systems of the automobile are covered. Students will also complete units in electricity and engine performance. Students taking this class are beginning the Auto Mechanics sequence and can go on to Auto Mechanics I and II upon completion.

AUTO TECHNOLOGY I

Prerequisite – Introduction to Auto Technology

2 credits – 2 periods

Auto Technology I is a one-year occupation preparation course which stresses theory, operation and service in brake systems, suspension, steering, and engine performance.

AUTO TECHNOLOGY II

Prerequisite - Auto Technology I

2 credits – 2 periods

Auto Technology II is a one-year occupation course, which stresses theory, operation and service in electrical systems and finish engine performance with great attention on computerized vehicle controls.

INTRODUCTION TO MASONRY

Prerequisite – Grades 10 or higher

Semester – ½ credit

Students will be exposed to opportunities in the masonry field, basic safety, basic math, hand tools, power tools, blueprints, wood frame construction and develop skills and technical knowledge for mixing mortar and laying brick and block. Students will have hands-on experience in the lab. This class is an introduction to the two-year masonry program.

MASONRY I

Prerequisite – Introduction to Masonry

2 credits – 2 periods

Masonry I is a one-year occupational preparatory course in which instruction is provided in manipulative skills, critical thinking and problem solving through hands-on masonry work. Students

will work with safety, masonry math, hand and power tools, blueprints, mortar mixing, laying brick and block, build columns, arches, chimneys, performing straight wall work and various brick bonds.

MASONRY II

Prerequisite – Masonry I

2 credits – 2 periods

Masonry II is a one-year occupation preparatory course. Students will learn advanced masonry skills. Students will learn to build specialized patterns, designing and building fireplaces and forming foundations.

INTRODUCTION TO BUILDING TRADES

Prerequisite – Grade 10 or higher

Semester- ½ credit

Introduction to Building Trades is designed to familiarize students with the construction trades and to equip them to continue in the Building Trades vocational cluster. A special emphasis will be placed on safety. Students will focus on careers in the building trades, operation of hand and power tools, types of building materials, measuring, construction methods, basic carpentry skills, basic electrical and plumbing theory, and wood frame construction. Fifty percent of the class time will be spent working in the shop area.

BUILDING TRADES I

Prerequisite – Introduction to Building Trades

2 credits – 2 periods

Building Trades I is designed to develop student skills in the Building Trades vocational cluster. Students will investigate, learn and implement construction methods on shop projects including knowledge of building materials, measuring, carpentry skills, electrical and plumbing skills and residential construction methodology. Students will earn their OSHA 10 card and prepare for the NCCER carpentry certification. A large part of the class time will be spent on projects.

BUILDING TRADES II/CVCC

Prerequisite – Building Trades I

2 credits – 2 periods

Building Trades II builds on Building Trades I and prepares students to enter the workforce. Skills USA club membership is required. Students utilize their skills to work on shop and work-site projects. Students can acquire OSHA 30 certification as well as NCCER certificates in Core Safety and Carpentry. A majority of class time is spent on projects.

INTRODUCTION TO CAD

Prerequisite – Grade 10 or higher

Semester – ½ credit

This is an introduction to the two-year Computer Aided Drafting program. Students will be exposed to the basic Computer Aided Drafting commands as they relate to Machine and Architectural Drafting and blueprint work. This introduction is “NOT” a prerequisite for CAD I and II.

COMPUTER AIDED DRAFTING I

Prerequisite – successfully completed Algebra I

2 credits – 2 periods

Computer Aided Drafting I is a year long occupational preparation course for students interested in a drafting career as well as students interested in continuing their education after high school in the areas of Architecture or Engineering. Students will be exposed to the basics of drafting procedures using AutoCAD software. The emphasis in CAD I will be on machine drafting. Students will prepare drawings of machine parts such as those found in local industries. These drawings will include two-dimensional and three-dimensional views.

COMPUTER AIDED DRAFTING II/CVCC

Prerequisite - Seniors having completed Computer Aided Drafting I

2 credits – 2 periods

Computer Aided Drafting II is a yearlong occupational preparation course, which will allow students to advance their CAD training. The emphasis in CAD II will be on Architectural Drafting as it relates to light residential construction. Students will be trained to draw a complete set of house plans, which would include floor plans, elevations, wall sections, and details from which a contractor can build. Successful completion of the TWO-year program will allow the student to articulate into the Engineering Technology Program at Central Virginia Community College. This course may be taken for dual enrollment credit.

LEADERSHIP DEVELOPMENT

Prerequisite – Grades 11 or 12

Semester – ½ credit

Leadership Development is designed to provide students with personal and group leadership skills. Course content will include units in principles of leadership, officer training, parliamentary law, public speaking, effective communication and human relations skills. Students are encouraged to be active members of a community or school organization.

INTRODUCTION TO WELDING

Prerequisite – Grade 10 or higher

Semester- ½ credit

This is an introduction to the two-year Welding Program. Students will be exposed to oxygen and acetylene welding, brazing, hard facing, and oxyacetylene cutting with exposure to the other

welding and cutting processes taught in the Welding I and II programs.

WELDING I

Prerequisite - Introduction to Welding

2 credits – 2 periods

Welding I is a one-year occupational preparation course in which instruction is provided in manipulative skills for the most common welding relations skills. Students are encouraged to be active member of the community or school organization.

WELDING II/CVCC

Prerequisite - Welding I

2 credits – 2 periods

Welding II is a one-year occupation course which provides opportunity to learn advanced Shielded Metal Arc Welding, basic Gas Metal Arc Welding (MIG), and basic Gas Tungsten Arc Welding (TIG). These processes will be used in welding mild steel, stainless steels, and aluminum materials. This course can be taken for dual enrollment.

PRECISION MACHINING

TECHNOLOGY

(MACHINE TOOLS) /CVCC\

Prerequisite – CVCC Application Process

Year – 3 credits

Precision machining Technology is a dual-enrolled high school/college course of study, which prepares the area's workforce for employment with modern manufacturing industries. Students are taught how to use computer numeric-controlled machining centers, precision measurement devices, CAD technology and other high-tech equipment used in manufacturing operations.

Students will report to CVCC daily for the occupational training courses and then report to the high school for academic courses.

HVAC (HEATING, VENTILATION AND AIR CONDITIONING) /CVCC

Prerequisite – CVCC Application Process- 3 credits

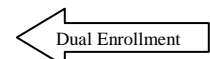
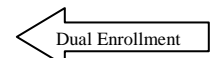
HVAC is a dual-enrolled high school/college course of study, which prepares students for future employment in careers utilizing skills and knowledge acquired in the areas of heating, ventilation and air conditioning. Students are taught how to use circuits and controls, mechanical codes, air distribution and designs, hydronics and heat pumps.

Students will report to CVCC daily for the occupational training courses and then report to the high school for academic courses.

CISCO/CVCC

Prerequisite – CVCC Application Process

Year – 2 credits



The Cisco Networking Academy Program at CVCC provides the opportunity for a student to challenge the Cisco Certification Network Associate (CCNA) exam after completing four semesters of work. CCNA is targeted for students in high school, technical schools, and community colleges. CCNA instruction focuses on how to install, configure, and operate simple-routed LAN, routed WAN, and switched LAN and LANE networks.

CAREER INTERNSHIP

Prerequisite – Seniors Only.

Year – **No credit**

This is a course open to seniors designed to provide a direct experience in the community in an area of serious career interest. A written plan of objectives, activities and evaluation must be developed at the beginning of the internship and agreed to by students, parents, community mentors, a school counselor and principal.

TEACHER CADET (TEACHERS FOR TOMORROW)

Prerequisite - Seniors with a 3.0 or better GPA.
Completed application form and two teacher recommendations

Essay addressing “Why I Want to Become a Teacher in Training” or “How a Teacher Has Had a Positive Influence on Me” This class is dual enrollment with Lynchburg College.

Year – 1 credit

This program is supported by the VDOE. It is a program that encourages young people to consider education as a career choice. This course will enhance the reading, writing, public speaking, reflecting skills, and critical skills in our students. This course also will help produce positive leadership skills in our students.

STARS PROGRAM

There are two programs in the curriculum that are computer based.

STARS Repeat core course:

This program is designed to allow a student who has failed a core course to retake that course in a one semester computer-based course rather than repeating the entire year long course. Students will be scheduled into a computer lab for the course with a lab facilitator (teacher). The curriculum for the repeat course will be computer-based. A student may take only two STARS repeat courses in one year. The student will receive credit for this course.

STARS SOL Enrichment core courses:

This program is designed to allow a student who passed the core course but failed the end-of-course SOL test the opportunity to remediate in the concepts

necessary for the student to be successful on the SOL test. This course will be scheduled into a computer lab with a lab facilitator (teacher). The enrichment will be computer-based. The student will receive a half credit for the one semester course.

COMPUTER/TECHNOLOGY _____

VISUAL BASIC.NET

Prerequisite – Completion of Algebra II with a minimum grade “C” and a passing score on the Algebra II SOL test or enrolled in Algebra II/Trig
Year – 1 credit

This course is designed for students who have a working knowledge of the basic principles of Algebra. Students will learn the history of computational systems and the social and ethical implications of computers. The students will be introduced to microcomputers and the Visual Basic.NET programming language which is an object-oriented programming language used to create Windows, Web, and command-line (console) applications. Students will design and code programs using good problem-solving skills and good programming structure. They will develop skills in working with both mathematical and non-mathematical problems. No previous programming experience is required.

COMPUTER SCIENCE- C++ PROGRAMMING

Prerequisite – Visual Basic.Net with a grade of C+ or better, or math department recommendation.

Year – 1 credit

Programming offers students an opportunity to develop problem-solving skills.

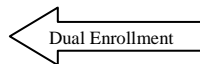
INFORMATION TECHNOLOGY (IT) FUNDAMENTALS

Prerequisites: Keyboarding Applications, Word Processing, or **teacher-approved** demonstrated and documented touch keyboarding skills.

Year - 1 credit

IT Fundamentals is recommended for freshmen and sophomores; however is excellent reinforcement for upper classmen.

Information Technology (IT) Fundamentals introduces essential skills needed for students to pursue specialized programs leading to technical and professional careers and certifications in the IT industry. This course introduces skills related to information technology basics, computer hardware, computer maintenance/upgrading/troubleshooting, computer applications, graphics, web page design, Internet fundamentals, network systems, and interactive media. Students explore ethical issues related to computers and Internet technology and develop teamwork and communication skills that will



enhance their employability. Students participate in several IT-related projects throughout the year.

COMPUTER SYSTEMS TECHNOLOGY/CVCC

Prerequisites – Algebra I, Keyboarding (IT recommended.)

Year – 1 credit

This course is designed to give students base skills for computer repair and service as well as provide a base for taking the CompTIA A+ exam both for hardware and OS. In class we will learn from lecture, laboratory experience, and guided practice. Once both CompTIA A+ exams are passed a student will be an A+ certified computer technician. Student can gain experience by working with an apprenticeship program with the school's or school division's IT department.

COMPUTER APPLICATIONS AND THE INTERNET

Prerequisites: Keyboarding Applications, Word Processing, or teacher-approved demonstrated and documented touch keyboarding skills.

NOTE: It is recommended that freshmen and sophomores take IT Fundamentals before taking this class.

Semester- ½ credit

Computer Applications and the Internet explores many areas and uses of the Internet including history, ethics, security, browsers, research, communication, e-commerce, terminology, newsgroups networking, and making the Internet work for the student. Students will learn Internet fundamentals and the basics of web page design using HTML. Essential skills for word-processing, spreadsheet database, graphics, and telecommunications applications are taught and reinforced.

THE SCHOOL COUNSELING PROGRAM

The developmental school counseling program is multidisciplinary, requiring collaboration and teamwork. Although counselors plan, direct, and carry out most of the school and counseling activities, the responsibility for the success of the program is shared with teachers, administrators, supervisors, parents, and members of the community. The counselors invite questions, comments and input from parents and/or guardians involved in the educational and personal development of students. For the 2009-2010 school year, school counselors at the high school will be assigned utilizing an alpha distribution of the student population according to last name.

Schedule changes are allowed **only** in the following situations:

1. An error in the schedule
2. A decision to take a more advanced course after consulting with a school counselor
3. An unusual circumstance such as an injury

Please feel free to contact any member of the school counseling department at 946-2815.

Amherst County High School Counseling Department

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L – R	Ms. Jennings	hmjennings@amherst.k12.va.us
S – Z	Mrs. Thomas	kthomas@amherst.k12.va.us

Amherst Education Center

Ms. Jennings	hjennings@amherst.k12.va.us
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Amherst Middle School

Mrs. Cecil	kcecil@amherst.k12.va.us
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Monelison Middle School

Mrs. Shaner	rshaner@amherst.k12.va.us
Mrs. Goins	kgoins@amherst.k12.va.us

Family Educational Rights and Privacy Act (FERPA)

FERPA is a federal law that gives parents the right to review their child's education record and to request changes under limited circumstances. To protect the child's privacy, the law generally requires schools to ask for written consent before disclosing the child's personally identifiable information to individuals other than the parent.

FERPA defines "directory information" as information contained in a student's education record that generally would not be considered harmful or an invasion of privacy if disclosed. Directory information could include: name, address, date and place of birth, dates of attendance and grade level; participation in officially recognized athletics and sports; weight and height of members of athletic teams; degrees, honors and awards received or the most recent school attended.

A school may disclose directory information to anyone, without consent, if it has given parents general notice of the information it has designated as "directory information" the right to opt out these disclosures; and the period of time they have to notify the school or their desire to opt out.

STUDENT WORKSHEET: SIX-YEAR PLAN

Selected Career Pathway _____ **Chosen Career** _____

School year: _____

School year: _____

Required Courses	Grade	Credit
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Required Courses	Grade	Credit
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Elective Courses	Grade	Credit
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Elective Courses	Grade	Credit
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

School year: _____

School year: _____

Required Courses	Grade	Credit
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Required Courses	Grade	Credit
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Elective Courses	Grade	Credit
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Elective Courses	Grade	Credit
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

School year: _____

School year: _____

Required Courses	Grade	Credit
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Required Courses	Grade	Credit
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Elective Courses	Grade	Credit
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Elective Courses	Grade	Credit
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Planning Future Assessments/Examinations

Counselor/student review of Assessment/Examination

(Circle if needed and indicate anticipate dates of examinations)

_____ Interest Inventory

_____ ACT

_____ PSAT

OTHER: _____

_____ ASVAB

_____ SAT

NOTES: _____

_____ Achievement

_____ Vocational Assessment

_____ Aptitude

_____ Virginia VIEW
