

Dear Virginia High School Students and Parents:

As you select courses for the coming year, you should talk with your teachers and guidance counselors about what courses you should take, based upon your goals and aspirations. Be sure that you sign up for the courses you intend to complete. We will begin to build the master schedule shortly after the close of registration this spring. Based on that master schedule, we make decisions about how many teachers to hire in each department.

Once the master schedule is complete, there is little room to accommodate requests for schedule changes. We will, of course, honor requests for changes under the following circumstances:

- The student passes a course taken in summer school and does not need to retake it during the school year;
- The student failed the prerequisite course;
- A required course was omitted from the student's schedule;
- The student's schedule was printed with fewer than seven classes;
- The student wished to enroll in a higher-level course and room is available in that course;
- The student is changing his/her diploma track.

All requests for schedule changes that are not listed above must be submitted in writing with specific reasons for the requested change. No schedule modifications will be made without appropriate justification.

An advisory committee to the principal will review all written requests for schedule changes. The only changes that will be made are those that are approved by the committee and signed by the principal. For these reasons, I urge you to make course selections carefully and thoughtfully. It may not be possible for you to change a schedule once it is written.

**STANDARD DIPLOMA
APPLIES TO 2011, 2012, 2013 GRADUATES**

22 Units of Credit

Students entering ninth grade in 2003-04 and after must earn the following verified credits:

English	4	English	2
*Mathematics	3	Mathematics	1
**Laboratory Science	3	Laboratory Science	1
***History/Social Sciences	3	History/Social Science	1
Health and P.E.	2	****Student selected tests	1
Fine Arts or Practical Arts	1	or alternative verified	
Computer Information Systems	1	credits	
****Electives	5		
TOTAL	22	TOTAL	6

*Courses that satisfy this requirement must be at or above the level of algebra and must include at least two course selections from among: Algebra I, Geometry, Algebra II, or other mathematics courses above the level of algebra and geometry. Students taking Geometry A must complete a second geometry course to earn geometry credit.

**Courses that satisfy this requirement must include selections from two different science disciplines: earth science, biology, chemistry, and physics (Va. SOA).

***Courses that satisfy this requirement must include Personal Finance, U.S. and Virginia History, U.S. and Virginia Government, and one World History/Geography course. Courses that satisfy the World History/Geography requirements are: World Geography; World History I; and World History II (Va. SOA).

****Courses that satisfy this requirement must include two sequential electives (Va. SOA).

*****Students may earn verified credits through alternative means.

Beginning with the Ninth Grade Class of 2010-2011

Credits required for graduation with a **Standard Diploma**

Discipline Area	Standard Units of Credit Required	Verified Credits Required
English	4	2
Mathematics ¹	3	1
Laboratory Science ^{2,6}	3	1
History and Social Sciences ^{3,6}	3	1
Health and Physical Education	2	
Foreign Language, Fine Arts or Career and Technical Education ⁷	2	
Economics and Personal Finance	1	
Computer Information Systems	1	
Electives ⁴	3	
Student Selected Test ⁵		1
Total	22	6

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

²Courses completed to satisfy this requirement shall include course selections from at least two different science disciplines: earth sciences, biology, chemistry, or physics. The board shall approve courses to satisfy this requirement.

³Courses 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.

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

⁵A 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 8 VAC 20-131-110.

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

⁷Pursuant to Section 22.1-253.13:4, Code of Virginia, credits earned for this requirement shall include one credit in fine or performing arts or career and technical education.

Beginning with the Ninth Grade Class of 2010-2011

Credits required for graduation with a **Standard Technical Diploma**

Discipline Area	Standard Units of Credit Required	Verified Credits Required
English	4	2
Mathematics ¹	3	1
Laboratory Science ^{2,5}	3	1
History and Social Sciences ^{3,5}	3	1
Health and Physical Education	2	
Foreign Language, or Fine Arts	1	
Economics and Personal Finance	1	
Career and Technical Education ⁴	3	
Computer Information Systems	1	
Electives	1	
Student Selected Test ⁶		1
Total	22	6

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

²Courses completed to satisfy this requirement shall include course selections from at least three different science disciplines from among: earth sciences, biology, chemistry, or physics. The board shall approve courses to satisfy this requirement.

³Courses 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.

⁴Courses to satisfy this requirement must include a career concentration as approved by the board. If a career concentration includes a specific assessment approved by the board and the student is eligible to take the assessment, then the student must take this assessment.

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

⁶A 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 8 VAC 20-131-110.

Earning Verified Credits for the Standard Diploma

Social Studies or Science Verified Credit

Students who score between 375 and 399 on any social studies or science SOL test and who have attempted the same test at least twice may appeal to a local panel of educators. This local panel, under specific conditions spelled out in the School Board's policy, may award local verified credit.

Students who enter the ninth grade for the first time in 2003-04 and after must earn **six** verified credits, two in English, one math, one in science, one in social studies, and one student selected test.

For the student-selected verified credit **only**, students may substitute one professional license in career and technical education fields as approved by the Virginia Department of Education. Students should consult with the Guidance Department concerning this option.

DUAL ENROLLMENT

Dual-credit is designed to award college credit to high school students who, prior to graduation, successfully complete designated college-level courses. Students are expected to perform at the same level as their college counterparts participating in the same course on campus. Normally, academic dual enrollment courses intended for transfer with a grade of "C" or above will transfer to most institutions of higher education. **However, no guarantee can be made regarding transferability to all in-state and out-of-state colleges and universities.** Community college occupational/technical course credits earned are applicable to specific curricula and are intended to prepare students for employment in those areas. While some of these courses may be accepted for transfer, no unified policy on the transfer of Virginia Community College System occupational/technical courses exists. **Students should be advised to consult with transfer institutions in order to determine if their courses will be accepted for transfer.**

Anyone wishing to take a dual enrollment class off campus must register for it in the spring and obtain the principal's approval. Absolutely no one will be allowed to drop a VHS class and take a VHCC class off campus once school has started.

All students and parents **must** complete the VHCC dual enrollment form when registering in order to take a dual enrollment course. Only students fully registered with VHCC will be enrolled in these dual enrollment classes. **Students must qualify for academic dual enrollment courses with a successful score on the COMPASS Placement Test or SAT.**

Statistics	Marketing Essentials
Human Anatomy and Physiology I	IT Essentials
English 12	Culinary Arts I
Computer Networking I	Culinary Arts II
Computer Networking II	Gaming and Robotics Programming
Physics	
Pre-Calculus	
Calculus	

**ADVANCED STUDIES DIPLOMA
APPLIES TO 2011, 2012, 2013 GRADUATES**

English	4	English	2
*Mathematics	4	Mathematics	2
**Laboratory Science	4	Laboratory Science	2
***History/Social Sciences	4	History/Social Sciences	2
****Foreign Language	3		
Health and P.E.	2		
Fine Arts or Practical Arts	1		
Computer Information Systems	1	Student selected test	1
Electives	2		
TOTAL	25	TOTAL	9

*Courses that satisfy this requirement must be at or above the level of algebra and must include at least three course selections from among: Algebra I, Geometry, Algebra II, or other mathematics courses above the level of Algebra II. Students taking Geometry A must complete a second Geometry course to earn Geometry credit.

**Courses that satisfy this requirement must include course selections from at least three different science disciplines from among: earth science, biology, chemistry, and physics. Courses from two different science disciplines may combine with the IB science course to satisfy this requirement (Va. SOA).

***Courses that satisfy this requirement must include Personal Finance, U.S. and Virginia History, U.S. and Virginia Government, and two World History/Geography courses. Courses that satisfy the World History/Geography requirements are: World Geography; World History I; and World History II (Va. SOA).

****Students may satisfy this requirement with three years of one language or two years of two languages (Va. SOA).

Beginning with the Ninth Grade Class of 2010-2011

Credits required for graduation with an **Advanced Studies Diploma**

Discipline Area	Standard Units of Credit Required	Verified Credits Required
English	4	2
Mathematics ¹	4	2
Laboratory Science ²	4	2
History and Social Sciences ³	4	2
Foreign Language ⁴	3	
Health and Physical Education	2	
Fine Arts or Career and Technical Education	1	
Economics and Personal Finance	1	
Computer Information Systems	1	
Electives	2	
Student Selected Test ⁵		1
Total	26	9

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

²Courses completed to satisfy this requirement shall include course selections from at least three different science disciplines: earth sciences, biology, chemistry, or physics. The board shall approve courses to satisfy this requirement.

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

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

⁵A student may utilize additional tests for earning verified credit in computer science, technology, career and technical education, economics, or other areas as prescribed by the board in 8 VAC 20-131-110.

Beginning with the Ninth Grade Class of 2010-2011

Credits required for graduation with an **Advanced Studies Technical Diploma**

Discipline Area	Standard Units of Credit Required	Verified Credits Required
English	4	2
Mathematics ¹	4	2
Laboratory Science ²	4	2
History and Social Sciences ³	4	2
Foreign Language ⁴	3	
Health and Physical Education	2	
Fine Arts or Career and Technical Education	1	
Economics and Personal Finance	1	
Computer Information Systems	1	
Electives ⁵	2	
Student Selected Test ⁶		1
Total	26	9

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

²Courses completed to satisfy this requirement shall include course selections from at least three different science disciplines: earth sciences, biology, chemistry, or physics. The board shall approve courses to satisfy this requirement.

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

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

⁵Courses completed to satisfy this requirement must include a career concentration as approved by the board. If a career concentration includes a specific assessment approved by the board and the student is eligible to take the assessment, then the student must take this assessment.

⁶A 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 8 VAC 20-131-110.

**MODIFIED STANDARD DIPLOMA
APPLIES TO 2011, 2012, 2013 GRADUATES**

Certain students with disabilities who are unlikely to meet the credit requirements of the Standard Diploma may earn a Modified Standard Diploma. The decision to attempt the Modified Standard Diploma is made by the Individual Education Program team, with the full knowledge and written consent of the student's parents/guardians.

20 Units of Credit

English	4
*Mathematics	3
**Laboratory Science	2
***History/Social Sciences	2
Health and P.E.	2
Fine Arts or Practical Arts	1
****Electives	6
TOTAL	20

*Courses that satisfy this requirement must include content from among applications of algebra, geometry, and personal finance (Va. SOA). The courses in applications of algebra and geometry should be completed before the student takes personal finance.

**Courses that satisfy this requirement must include selections from two different science disciplines (Va. SOA).

***Courses that satisfy this requirement must include Personal Finance, U.S. and Virginia History and U.S. and Virginia Government (Va. SOA).

****Courses that satisfy this requirement must include two sequential electives (Va. SOA).

In addition to earning the credits described above, students must pass the Grade 8 English and Math Standards of Learning tests to earn a Modified Standard Diploma.

Beginning with the Ninth Grade Class of 2010-2011

Credits required for graduation with a **Modified Standard Diploma**

Discipline Area	Standard Units of Credit Required
English	4
Mathematics ¹	3
Science ²	2
History and Social Sciences ³	2
Health and Physical Education	2
Fine Arts or Career and Technical Education	1
Electives ⁴	6
Total	20

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

²Courses completed shall include content from at least two of the following: applications of earth science, biology, chemistry, or physics in courses approved by the board.

³Courses 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.

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

Every student shall be expected to pursue a Standard Diploma, Standard Technical Diploma, Advanced Studies Diploma, or Advanced Technical Diploma. The Modified Standard Diploma program is intended for certain students at the secondary level who have a disability and are unlikely to meet the credit requirements for a Standard Diploma. Eligibility and participation in the Modified Standard Diploma program shall be determined by the student's Individualized Education Program (IEP) team including the student, where appropriate, at any point after the student's eighth grade year.

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.

Students pursuing the Modified Standard Diploma shall pass the 8th grade literacy and numeracy competency assessments as prescribed by the board.

DIPLOMA SEALS

Students who demonstrate outstanding academic performance may also earn one of the following diploma seals:

1. **Governor's Seal.** To earn this award, students must:
 - earn an Advanced Studies Diploma or Advanced Studies Technical Diploma with a "B" average or better, and
 - successfully complete at least one Advanced Placement, International Baccalaureate, or college-level course.
2. **Board of Education Seal.** To earn this award, students must:
 - earn a Standard Diploma or Standard Technical Diploma, and
 - maintain an "A" average.
3. **Career and Technical Education Seal.** To earn this award, students must:
 - earn either a Standard or Advanced Studies Diploma, and complete a prescribed sequence of courses in career and technical education with a "B" or better average in those courses, **or**
 - earn a certification in his/her field from a recognized industry, trade or professional organization, **or**
 - earn a professional state license in his/her field.
4. **Board of Education Seal of Advanced Mathematics and Technology.** To earn this award, students must:
 - earn either a Standard, Standard Technical or an Advanced Studies or Advanced Technical Diploma, and
 - earn four units of credit in mathematics (including Algebra II) with a "B" average or better average, and
 - earn two verified units of credit in mathematics, and
 - earn a certification in a career or technical education field from a recognized industry, trade, or professional association, **or**
 - earn a professional state license in a career or technical education field, **or**
 - pass an examination approved by the State Board of Education that confers college credit in a technical or computer science area.

5. **Board of Education Seal for Excellence in Civics Education.** To earn this award, students must:

- earn a Standard or Advanced Studies Diploma, and
- complete Virginia and United States History and Virginia and United States Government courses with a “B” or higher, and
- complete 50 hours of voluntary participation in community services or extracurricular activities. Activities that would count include:
 - volunteering for a charitable or religious organization that provides services to the poor, sick, or less fortunate,
 - participating in political campaigns or government internships, or Boys State, Girls State or Model General Assembly,
 - participating in school sponsored extracurricular activities that have a civics focus.

Any student who enlists in the United States military prior to graduation will be deemed to have met this community service requirement **AND**

- Have good attendance with no disciplinary infractions as determined by local school board policies.

WEIGHTED COURSES

Students may earn weighted credit by successfully completing the following courses:

AP/Honors Language & Composition English 11	AP Biology
IB/DE English 12	IB Biology II
AP Government	French IV and V
IB Twentieth Century Topics	Spanish IV and V
DE Pre-Calculus	IB Information Technology in a Global Society
DE Physics	Virtual Governor's School Courses
DE Calculus	DE Statistics
AP Calculus	Art IV or V (if a student submits a portfolio to CEEB for AP credit)
AP U.S. History	Virtual Virginia Courses
AP Environmental Science	
AP Psychology	

Students must take the AP or IB exam to earn the weighted credit in these courses. Students will be reimbursed the cost of all AP exams on which they earn a "3" or better. The School Board will pay all exam fees for students with demonstrated economic need.

Advanced Placement and Dual Enrollment Courses

Virginia High offers Advanced Placement (AP) and/or dual enrollment courses. The AP and DE courses are taught at the college level and follow the course outlines developed by the College Board and/or the Community College AP examinations are given at Virginia High School in May according to a schedule established by the College Board.

Students are encouraged to consider the following potential benefits of completing AP and DE courses and taking the AP examinations:

- Many colleges and universities offer college credit for acceptable scores on AP examinations, which could result in tuition savings;
- Many colleges give consideration for honors and other special programs to students who have received AP and DE recognition; and
- Colleges give additional consideration to applicants who have taken the most challenging courses offered by their high schools.

To increase the probability of success in AP and DE courses students should:

- Find out more about each course by talking to the teacher and reviewing the course syllabus and course expectations;
- Consult with the current teacher for advice,
- Have a cumulative grade point average of "B" or above,
- Understand that AP and DE courses require commitment,
- Be prepared to analyze and evaluate their own products (writing, research projects, etc., as well as works by peers and experts),
- Be able to comprehend advanced level reading materials and writing from various vantage points in a number of styles and for a variety of purposes,
- Understand that the pace of an advanced course is faster than that of other courses, and
- Be aware that success in more advanced courses enhances the chances of being accepted by colleges and universities and better prepares the student to do college/university level work.

Commonwealth Scholars (Graduating Classes of 2007-2013)

*Verified Credit means passing the course and the end-of-course SOL test.

Commonwealth Scholars must successfully complete these specific core courses:

Standard Diploma 22 Credits (Of the Total Credits Students Must Earn a Minimum of Six *Verified Credits from the Following Disciplines)	Advanced Studies Diploma 24 Credits (Of the Total Credits Students Must Earn a Minimum of Nine *Verified Credits from the Following Disciplines)
English 11 Writing & Reading / Literature / Research (2 Credits)	English 11 Writing & Reading / Literature / Research (2 Credits)
Mathematics (1 Credit)	Mathematics (2 Credits)
Science (1 Credit)	Science (2 Credits)
History / Social Science (1 Credit)	History / Social Science (2 Credits)
Student's Choice (1 Credit)	Student's Choice (1 Credit)

- English (4)
- Mathematics (3) - Required: Algebra 1, Algebra 2, and Geometry
- Laboratory Science (3) - Required: Biology, Chemistry, Physics (Prin. Of Tech. 1, 2 may be substituted for Physics)
- History & Social Science (4) - Choose from the following: World Geography, World History, US and VA History, US and VA Government, Economics, Financial Literacy
- Fine Arts or Career & Technical Education (1)
- Foreign Language (2) - Two courses in the same foreign language.

Students completing this criteria will receive a medal at graduation to recognize their accomplishment. Students completing the **Commonwealth Scholars Program of Study** DO qualify in 2010-11 for an additional grant called the Academic Competitiveness Grant IF they are eligible to receive a Pell grant award (i.e. have financial need). Students apply for the Academic Competitiveness Grant simply by completing the FAFSA or federal financial aid application. There is a question on the FAFSA that asks students if they completed a "rigorous program" in high school. ONLY students who check "Yes," to that question (i.e. students who identify that they completed a rigorous program of study will be eligible to receive the Academic Competitiveness award. This is the single step needed to alert college financial aid officers that a student may qualify for Academic Competitiveness Grant, but it is an important step. Obviously, if students are to access this resource, they must be advised or guided to check "Yes" to the question on whether their program of study in high school was a rigorous one. (Please note that students receiving an Advanced Diploma also qualify for the award, if they check "Yes" to the FAFSA form's question on whether they completed an academically rigorous program.

At the college level, students who check "Yes" to the question on the academic rigor of their high school program will be made known to financial aid officers who will then access transcripts to verify the student has completed the required courses. However, all that needs to be done at the high school level and all that needs to be made known to high school guidance counselors or career coaches working with seniors who are Commonwealth Scholars students is that the student should check "Yes" to the question about the academic rigor of their high school studies.

Academic Competitiveness Grants provide students who are eligible to receive federal financial aid with up to \$750 for the first year of college studies and \$1300 for the second year of study. You can find detailed information about the grant at the Web site below:

A. Linwood Holton Governor's School

Course Offerings

Life Sciences

- Human Anatomy and Physiology I, II

Virtual Virginia School

Virtual Virginia students will be active participants in the virtual world of learning. They will work with talented instructors who will interact with them to help them achieve their educational goals. An online class is similar to a regular classroom in some ways. Students will experience opportunities to interact with other students around the state, around the nation, and from other countries. They will develop strong relationships with their instructor and their fellow students. They will get an opportunity to learn technology skills in addition to the knowledge they gain in their subject area. Students are expected to learn how to effectively manage their time and to keep up with course assignments.

Virginia High School Virtual School students must agree to pursue the Commonwealth Scholars certificate and complete the application for Commonwealth Scholars before scheduling a Virtual Virginia AP course.

Students are expected to work on their courses outside of school hours. The College Board recommends that AP students spend five to ten hours working outside of class per week per course. Students should have a high degree of commitment to academic work.

The school counselor or designated registrar of the school registers the student online through the Virtual Virginia registration system. Any student who is not registered by June 30 will be enrolled in courses for the coming year on a "space available" basis. Students in Virtual Virginia courses who wish to drop a course must withdraw within 21 calendar days from the first day of the course. The school division is assessed an administrative fee of \$75 for students who withdraw more than 21 calendar days after the start of the course. The student will be responsible for the \$75.00 administrative fee.

ONLINE ADVANCED PLACEMENT COURSES

AP Art History

9151

The Advanced Placement offering in Art History is designed to provide the student with an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Students examine and critically analyze major forms of artistic expression from the past and the present from a variety of cultures. While visual analysis is the fundamental tool of the art historian, art history also emphasizes understanding works in context, considering such issues as patronage, gender, and the functions of and effects of works of art. *Prerequisites:* Minimum "B" average in all history and literature courses and a high degree of commitment to academic work.

AP Biology

4370

Advanced Placement Biology is designed to be the equivalent of a first year introduction college biology course. Advanced Placement Biology is designed for students who have successfully completed foundation courses in biology and chemistry. This 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. Primary emphasis of the course is on developing an understanding of concepts rather than on memorizing terms and technical details. As part of the course work, students will participate in a variety of hands-on and virtual labs that meet the laboratory objectives for Advanced Placement Biology as required by the College Board.

Lab Format: The lab component of the Virtual Virginia Advanced Placement Biology course consumes approximately 25% of the coursework and consists of a combination of virtual and hands-on "kitchen labs." Due to the nature of the course, the twelve required Advanced Placement Labs have been modified so that students can complete them by using safe substances rather than the original chemicals. The "kitchen labs" are modifications of the original lab and meet the same objectives. When a "kitchen lab" is not available, virtual labs are used to meet the objective of the laboratory component of the course. The virtual labs are interactive and ensure correct and comprehensive learning. When possible, both virtual and hands-on labs are used to complete a laboratory exercise. A third approach to teaching the laboratory objectives is data analysis activities, from which students read, interpret, graph, and make conclusions on sample data. All labs are reviewed by using the Lab Bench activities via the Pearson web site that compliments the student text book http://www.phschool.com/science/biology_place/labbench/. *Prerequisites:* Minimum "B" average in Biology I, Chemistry I, Geometry, and Algebra II and high degree of commitment to academic work.

AP Calculus AB**3177**

Advanced Placement Calculus AB develops the students' understanding of the concepts of calculus and provides experience with its methods and applications. The course emphasizes a multi representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. *Prerequisites:* Minimum "B" average in Pre-calculus and high degree of commitment to academic work.

AP Chemistry**4470**

Advanced Placement Chemistry is designed to be the equivalent of the first year college course in Chemistry. Students will attain a depth of understanding in the fundamentals and competence in dealing with chemical problems. This course will contribute to a student's ability to think clearly and express their ideas both orally and in writing with clarity and logic. The topics will emphasize chemical calculations and mathematical formulation of principles. The online laboratory experience will be equivalent to that of a typical college course. *Prerequisites:* Minimum "B" average in Algebra II and Chemistry I and high degree of commitment to academic work.

AP English Language and Composition (Junior Year)**1196**

The focus of Advanced Placement English Language and Composition is rhetorical analysis and argumentative writing. Students will be trained in analyzing texts for tone, purpose, syntax, rhetorical strategies, diction, and figures of speech. At the same time, students will analyze persuasive speeches and essays for their validity in reasoning and effectiveness in persuasion. Student will become skilled synthesizers of information, utilizing a variety of sources to support an assertion. One of the benchmarks of the course is the researched argumentative research paper. The course will emphasize nonfiction, since this is the genre that appears on the College Board's examination. However, novels will also be used to aid students in linguistic analysis. The desire to read and research current events will be helpful to any student enrolled in Advanced Placement Language and Composition. Advanced Placement Language & Composition is an intensive writing course that prepares students for the type of argumentative and analytical writing that is expected of them at the college level. *Prerequisites:* Minimum "B" average in all prior English and history courses and high degree of commitment to academic work.

AP English Literature and Composition (Senior Year)**1195**

Advanced Placement English is designed to challenge the student's ability to think critically, to synthesize literature, and to write effectively. The course will emphasize British literature, but will include literary works from many countries. In addition, information concerning cultural, historical, philosophical, and psychological backgrounds will be addressed. The genres will include epics, dramas, novels, and a major focus on poetry. Advanced Placement English will refine and improve writing styles. During the first half of the course, special attention will center on personal and critical essays. The course's writing unit design will focus on these areas: thesis statements, proof paragraphs, transitions, epiphanies, parallelism, paragraph unity and coherence, and common mechanical errors. Students will analyze literature independently and will correlate

concepts with literary backgrounds. In addition, each student will prepare a research paper using the current MLA standards. The Advanced Placement English course will prepare students for the College Board Advanced Placement Exam through curriculum and similar testing procedures. *Prerequisites:* Minimum “B” average in all prior English and history courses and high degree of commitment to academic work.

AP Environmental Science

4270

Advanced Placement Environmental Science is designed to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. *Prerequisites:* Minimum “B” average in Biology I, Chemistry I and Algebra II and high degree of commitment to academic work.

AP European History

2399

The study of European history since 1450 A.D. introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, goals of the course are to develop a) an understanding of some of the principal themes in modern European history, b) an ability to analyze historical evidence and historical interpretation, and c) an ability to express historical understanding in writing. Summer assignments are required.

Prerequisite: Minimum “B” average in Honors English 9 and World History II and high degree of commitment to academic work.

AP Government and Politics Comparative

2450

Students are introduced to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate the importance of global political and economic changes. **This course does NOT substitute for U.S. Government under the Virginia Standards of Learning.** *Prerequisites:* Minimum “B” average in World History II and high degree of commitment to academic work.

AP Human Geography**2212**

Advanced Placement Human Geography introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students will study diverse peoples and areas organized around concepts that include location and place, scale, pattern, spatial organization, and regionalization. They will also learn about the methods and tools geographers use in their science and practice.

Prerequisites: Minimum "B" average in World Geography or World History and high degree of commitment to academic work.

AP Psychology**2902**

Advanced Placement Psychology provides an overview of current psychological theory and practice. Students will explore the systematic and scientific study of the behavior and mental processes of humans and other animals. Students will be exposed to the principles, concepts and phenomena associated with major subfields within psychology, including biological bases of behavior, cognitive and emotional processes, and diagnosis and treatment of psychological disorders. In accordance with the driving principles of current psychological practice, this course will emphasize scientific method and procedure, ethical standards in research, and critical thinking skills. Student academic performance is expected to meet or exceed the rigorous requirements of an introductory-level college survey course. *Prerequisites:* Minimum "B" average in all English courses and high degree of commitment to academic work.

AP US History**2319**

Advanced Placement U.S. History is designed to develop the analytical skills and factual knowledge necessary to deal critically with the problems and materials concerning the history of the United States. The class prepares students for intermediate college courses by demanding skills equivalent to those acquired in a full-year introductory college program. Students will learn to assess historical material according to relevance, reliability, and importance by weighing the evidence presented in historical scholarship. Advanced Placement U.S. History develops the skills necessary to arrive at conclusions based on informed judgment and the ability to present evidence clearly and persuasively in essay format. This course includes materials from discovery and settlement to present day America. *Prerequisites:* Minimum "B" average in all history courses and high degree of commitment to academic work.

AP World History**2380**

The purpose of the Advanced Placement World History course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. *Prerequisites:* Minimum "B" average in all history and literature courses and high degree of commitment to academic work.

English

SIGNING UP FOR THE APPROPRIATE CLASS IN NINTH, TENTH, and ELEVENTH GRADE ENGLISH

While students may, with a waiver, elect to take a class more difficult than his/her prior performance indicates, students may not sign up for a level below his/her ability and/or performance level. The only exception is for those students who qualify for Honors, AP, or DE English, but, with parental permission, elect Academic English.

ENGLISH 9

1 hour/1 unit

1130G Grade 9

While the core of the curriculum of all English classes is the Virginia Standards of Learning, English 9 goes beyond the basic minimum state requirements. Instruction in this course is both career and college-preparatory.

ACADEMIC ENGLISH 9

1 hour/1 unit

1130 Grade 9

Academic English 9 is designed for students who are reading on or above grade level. Instruction in this course is almost exclusively college-preparatory. Assignment to this level is NOT limited to those students who plan to attend college.

HONORS ENGLISH 9

1 hour/1 unit

1130H Grade 9

Honors English 9 is designed for students reading above grade level. Students who may be interested in taking AP or DE English in the eleventh and twelfth grades should elect Honors English 9. This course provides intensive instruction within a highly structured, whole-class setting. Students' reading assignments are usually longer and more numerous than those in Academic English 9. Writing and discussion activities are frequent. Students who qualify for Honors English 9 may, with parental permission, elect to take Academic English 9 instead.

ENGLISH 10

1 hour/ 1 unit

1140G Grade 10

While the core of the curriculum of all English classes is the Virginia Standards of Learning, English 10 goes beyond the basic minimum state requirements. Instruction in this course is both career and college-preparatory.

ACADEMIC ENGLISH 10

1 hour/1 unit

1140 Grade 10

Academic English 10 is designed for students who read on or above grade level. While the core of the curriculum of all English classes is the Virginia Standards of Learning, Academic English 10 goes beyond the minimum state requirements. While the focus of this course is college-preparatory, assignment to this level is NOT limited to students who plan to attend college.

HONORS ENGLISH 10

1 hour/1 unit

1140H

Grade 10

Honors English 10 is designed for students who read above grade level. Students who may be interested in taking AP or DE English in the eleventh and twelfth grade should elect Honors English 10. This course provides intensive instruction within a highly structured, whole-class setting. Students' reading assignments are usually longer and more numerous than those in Academic English 10. Writing and discussion activities are frequent. Students who qualify for Honors English 10 may, with parental permission, elect to take Academic English 10 instead.

ENGLISH 11

1 hour/1 unit

1150

Grade 11

While the core curriculum is the Virginia Standards of Learning, English 11 goes beyond the basic minimum requirements. Instruction is both career and college-preparatory.

ACADEMIC ENGLISH 11

1 hour/1 unit

1150A

Grade 11

Academic English 11 is designed for students who read on or above grade level. Instruction in this course is almost exclusively college-preparatory. Assignment to this level is NOT limited to those students who plan to attend college.

AP/HONORS LANGUAGE and COMPOSITION

1 hour/1 unit

1196

Grade 11

The AP English Language and Composition course is designed to help students become skilled readers of prose written in a variety of rhetorical contexts and to become skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing.

ENGLISH 12

1 hour/1 unit

1160

Grade 12

While the core curriculum is the Virginia Standards of Learning, English 12 goes beyond the basic minimum requirements. Instruction is both career and college-preparatory.

ACADEMIC ENGLISH 12

1 hour/1 unit

1160A

Instruction in this course is almost exclusively college-preparatory. However, assignment to this level is NOT limited to those students who plan to attend college.

IB/DE ENGLISH 12

(English 111/112 at VHCC)

1 hour/1 unit

1196

Grade 12

IB/DE English 12 is designed to follow IB English 11 sequentially. Also, it is designed to provide direction to students in their preparation for the higher-level International Baccalaureate examinations in English by strengthening independent critical thinking skills in the study of literature and fostering a high level of achievement in both written and oral communication. The course focuses on readings from all areas of literature. Many of the texts deal with contemporary themes and are chosen to complement one another for comparative analysis. Methods of instruction are determined by the instructor and include the oral and written assessments prescribed by International Baccalaureate. A list of each year's texts is available from the VHS guidance office or the IB Coordinator. Five culture credits are required per semester. **Summer reading is required and is assigned by the instructor.** *Pre-requisite:* IB English 11.

JOURNALISM I YEARBOOK

1 hour/1 unit

1200 Grades 10-12

This is an elective course that prepares students for work on the school yearbook, the VIRGINIAN. The class provides training in managing, planning, selling advertisements and subscriptions, designing layout, copywriting and photography. *Prerequisite:* English teacher's recommendation and a "B" average in English

JOURNALISM II YEARBOOK

1 hour/1 unit

1210 Grades 11-12

Students in this class are responsible for the publication of the yearbook, the VIRGINIAN.

Prerequisite: English teacher's recommendation and Journalism I

JOURNALISM III YEARBOOK

1 hour/1 unit

1211 Grade 12

This course in yearbook is designed for experienced journalism students who will be assuming major staff positions for the publication of the yearbook. *Prerequisite:* Yearbook I and II and English teacher's recommendation

EXPLORATION IN DRAMA I

1 hour/1 unit

1410 Grades 9-12

This class is designed to help students gain a basic understanding of acting and other theatre skills. These skills are taught through games, role-playing, monologues, dialogues, and characterization. The class also explores stage production and is responsible for operating the stage for many activities, including the annual Spring Festival.

EXPLORATION IN DRAMA II

1 hour/1 unit

1420 Grades 10-12

This course is designed for second year drama students. Students will perform high level monologues, scenes and scripts using the Stanislavski technique. Students will also participate in Spring Festival and other school productions.

Prerequisite: Drama I and teacher recommendation

STAGE PERFORMANCE AND PRODUCTION

1 hour/1 unit

1430 Grades 11-12

This course is designed for students who have completed Drama II. Students will read, analyze and perform one act, full-length and musical productions. There will be a strong emphasis on characterization, role-playing and improvisation. Students will create, write, and perform scripts for school productions. *Prerequisite:* Teacher recommendation

READING

1 hour/1 unit

1180 Grade 9

This is a part of the ninth grade transition program. It is designed for students who require additional instruction to strengthen reading and study skills. The course counts as one elective credit. It may not be used as one of the required English credits.

SPEECH APPLICATIONS

1 hour/1 unit

1300 Grade 9-12

This course is designed for students working toward a Modified Standard Diploma. *Prerequisite:* Teacher recommendation is required for enrollment

Mathematics

COURSE DESCRIPTIONS

ALGEBRA I 1 hour/1 unit
3130 Grades 9-12
This course includes the study of sets, variables, equations, problem solving, factoring, rational and irrational numbers, and solving quadratics.

ALGEBRA IA 1 hour/1 unit
3131S Grades 9-11
This course is designed for students working toward a Modified Standard Diploma.

ALGEBRA I—Block 2 hour block
3199/3130 1 Hour Math Credit and 1 Hour Math Elective
This course focuses on operations with integers, evaluating expressions, solving and graphing linear equations, and working with equations and formulas. Factoring, solving and graphing quadratic expressions in addition to functions, relations and basic statistics are also covered. Algebra-based geometry and applications for the use of algebra in geometry is incorporated. Reinforcement is provided in problem solving and working with equations and formulas.

GEOMETRY 1 hour/1 unit
3143 Grades 9-12
This course includes the study of triangles, parallel and perpendicular lines, polygons, similar and congruent figures, as well as geometric constructions and designs. The course emphasizes deductive reasoning. *Prerequisite:* Algebra I with grades of “C” or better

GEOMETRY A 1 hour/1 unit
3144 Grades 10-12
This course, combined with the last year of the Integrated Algebra/Geometry sequence, covers the content for the required Geometry course. In order to earn credit for Geometry, student must complete both Geometry A and Integrated Geometry. *Prerequisite:* Algebra I

GEOMETRY A 1 hour/1 unit
3144S Grades 10-12
This course is designed for students working toward a Modified Standard Diploma.

INTEGRATED ALGEBRA 1 hour/1 unit
3146 Grades 9-12
This course is the first in a three-year sequence which covers Algebra I and Geometry. The focus in this class is on operations with integers, evaluating expressions, solving linear equations, and working with equations and formulas. Factoring quadratic expressions and basic statistics are also covered. Upon completion of the 3-year sequence, the student will have three math credits including credits for Algebra I and Geometry.

INTEGRATED ALGEBRA/GEOMETRY 1 hour/1 unit
3147 Grades 10-12
This course is the second in the Integrated Algebra/Geometry sequence of courses. Concentration in the first semester is primarily on algebra concepts including factoring, solving linear and quadratic equations, graphing linear and quadratic equations, and functions and relations. Second semester begins the integration of algebra-based geometry and provides applications for the use of algebra in a geometry context. Problem solving and work with equations and formulas is reinforced.

INTEGRATED GEOMETRY 1 hour/ 1 unit
3148 Grades 11-12
This course is the third year of the Integrated Algebra/Geometry sequence. This algebra-based geometry course covers many topics of geometry, including parallel lines, congruent triangles, quadrilaterals, similar figures, special right triangles, basic trigonometry, and circles.

ALGEBRA II

1 hour/1

unit

3135

Grades 9-12

This course includes solving linear and quadratic equations, inequalities, and systems of linear equations, sequences and linear functions. Polynomials, rational algebraic expressions, radicals, irrational numbers, exponents and logarithms are also studied. *Prerequisite:* Algebra I and Geometry

DE PRE-CALCULUS

(Math 163-164 at VHCC)

1 hour/1 unit

3162

Grades 10-12

This course presents analytic geometry and the calculus of algebraic and transcendental functions including the study of limits, derivatives, differentials, and introduction to integration along with their applications and rectangular, polar, and parametric graphing, indefinite and definite integrals, methods of integration, and power series along with applications. This course is designed for mathematical, physical, and engineering science programs. *Pre-requisites:* Algebra II and Geometry with the required score on the ASSET or COMPASS placement test from Virginia Highlands Community College. Students completing the IB math sequence are not eligible for this course.

COMPUTER MATHEMATICS

1 hour/1 unit

3184

Grades 11-12

The Computer Mathematics course is intended to provide students with experiences in using the computer to solve problems which can be set up as mathematical models. Problem solving strategies will be addressed. Programming will range from simple programs involving only a few lines to complex programs involving subprograms. Students will develop and refine skills in logic, organization, and precise expression that will enhance learning in other disciplines. *Prerequisites:* Algebra II and teacher recommendation

DE CALCULUS

(Math 173-174 at VHCC)

1 hour/1 unit

3177

Grades 11-12

This course presents analytic geometry and the calculus of algebraic and transcendental functions including the study of limits, derivatives, differentials, and introduction to integration along with their applications and rectangular, polar, and parametric graphing, indefinite and definite integrals, methods of integration, and power series along with applications. This course is designed for mathematical, physical, and engineering science programs. *Pre-requisites:* Dual enrollment pre-calculus or the required score on the ASSET or COMPASS placement test from Virginia Highlands Community College.

ADVANCED PLACEMENT CALCULUS AB

1 hour/1 unit

3177

Grades 10-12

Calculus AB is designed to be taught over a full high school academic year. It is possible to spend some time on elementary functions and still cover the Calculus AB curriculum within a year. However, if students are to be adequately prepared for the Calculus AB examination, most of the year must be devoted to topics in differential and integral calculus. These topics are the focus of the AP Exam. *Prerequisites:* Before studying calculus, all students should complete four years of secondary mathematics designed for college-bound students: courses in which they study algebra, geometry, trigonometry, analytic geometry, and elementary functions. These functions include those that are linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric, and piecewise defined. In particular, before studying calculus, students must be familiar with the properties of functions, the algebra of functions, and the graphs of functions. Students must also understand the language of functions (domain and range, odd and even, periodic, symmetry, zeros, intercepts, and so on) and know the values of the trigonometric functions of the numbers 0, $\pi/6$, $\pi/4$, $\pi/3$, $\pi/2$, and their multiples. *Prerequisites:* Minimum "B" average in Pre-Calculus and high degree of commitment to academic work.

DE STATISTICS

(Math 241-242 at VHCC)

1 hour/1 unit

3192

Grade 11-12

This course is designed to introduce students to fundamental techniques of probability and statistical analysis. Students will learn basic mathematical tools for effective experiment design, experimental result analysis, and "real-world" probability determination. Class discussion will emphasize how statistics and probability relate to daily news stories, contemporary debate topics, and day-to-day life. *Prerequisite:* Students wishing to earn dual enrollment credit from Virginia Highlands Community College for this course must have successfully completed Algebra II and earned the required score on the ASSET or COMPASS placement test.

PERSONAL FINANCE

1 hour/1 unit

3120S

Grades 11-12

This course is designed only for those students pursuing a Modified Standard Diploma who have already completed the Algebra and Geometry requirements of this diploma.

Science

EARTH SCIENCE I

1 hour/1 unit

4200Grade 9-12

This course includes integrated science topics with an emphasis on oceanography, geology, and meteorology. To enroll in this course, the student must be working toward a Modified Standard Diploma.

EARTH SCIENCE

1 hour/1 unit

4210Grade 9-12

This course is designed for students who can master science concepts. It includes oceanography, geology, meteorology, and astronomy. Laboratory experiments and demonstrations are included to show important principles. Special emphasis is given to developing a strong scientific vocabulary. An end of course SOL test is given.

BIOLOGY I

1 hour/1 unit

4300

Grade 9-12

This course includes integrated science topics from Earth Science and Biology, with an emphasis on major life processes. Particular attention will be paid to human biology. To enroll in this course the student must be working toward a Modified Standard Diploma.

BIOLOGY

1 hour/1 unit

4310

Grade 9-12

This course is designed for students who can master science concepts at a quicker pace. It includes the study of the basic biological principles such as cytology, cell division, photosynthesis, respiration, evolution, genetics, and taxonomy. Emphasis is given to a comparative study of the structures and life functions of representative members of each of the six kingdoms. An end of course SOL test is given. *Prerequisite:* A grade of "C" or better in previous science courses.

FORENSIC SCIENCE

Grade 11-12

1 hour/1 unit

4610

The Forensic Science course provides students with experiences and information that will broaden their understanding of the field of Forensic Science and crime scene investigations. A concurrent goal of the course is to develop observational, organizational and cognitive skills so to be able to integrate their experiences and knowledge to solve problems. *Prerequisite:* Biology I

ENVIRONMENTAL SCIENCE

1 hour/1 unit

4340

Grades 11-12

In this course students will learn how organisms interact with their environment. They will analyze how ecosystems work, biomes, populations, biodiversity, water, air, land, renewable and nonrenewable resources, waste, the environment and human health, and economics, policies, and the future.

AP ENVIRONMENTAL SCIENCE

1 hour/1

unit

4270

Grades 11-12

The goal of the AP Environmental Science course is designed to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. *Prerequisites:* Minimum “B” average in Biology I, Chemistry I and Algebra II and high degree of commitment to academic work.

CHEMISTRY I

1 hour/1 unit 4410 Grades 10-12

This course emphasizes the understanding of chemical principles involving concepts and mathematics. Laboratory work is an integral part of the program. An end of course SOL test is given.

Prerequisite: Successful completion of Algebra I and Geometry with a “C” or better. Students should also be currently enrolled in or have completed Algebra II.

PHYSICS

I hour/1

unit

4510Grades 11-12

This course includes the study of matter, energy forces, light, sound, magnetism, work, power and mechanical energy. Students who intend to major in a math or science-related field in college should enroll in this course.

DE PHYSICS

1 hour/1 unit

4570

Grades 11-12

Dual Enrollment

This course includes the study of matter, energy forces, light, sound, magnetism, work, power and mechanical energy. Students who intend to major in a math or science-related field in college should enroll in this course. Laboratory work is an important part of this course.

Prerequisite: “C” or better average in Geometry and Algebra II or “C” or better in Geometry and be currently enrolled in Algebra II. Students who successfully complete this course will earn dual enrollment credit from VHCC.

IB BIOLOGY II

1 hours/1 unit

IB 4380, 4390

Grades 12

This course is designed for the science student who wishes to pursue further study in biology. Students study basic biological principles such as cytology, photosynthesis, respiration, cell reproduction, and genetics. The course also includes the study of human anatomy and physiology, neurobiology, behavior, plant science, classification and diversity, and ecology. Students will participate in a Group IV project as part of the IB internal assessment. *Prerequisite:* Students must have taken IB Biology I.

DE HUMAN ANATOMY AND PHYSIOLOGY I

1 hour/ 1 unit

4100 GS (BIO 141-142)

Grades 11-12

Dual Enrollment

This Governor’s School course will present an integrated approach to human anatomy and physiology along with microbiology and pathology. The structures and function of the human body will be investigated. Upon completion of this course, students will understand the scope and subdivision of anatomy and physiology as well as the chemistry of the human body as it relates to the health sciences. Virtual laboratory activities and simulations will be integrated into the course. Students who successfully complete this course will earn dual enrollment credit from Virginia Highlands Community College. *Prerequisite:* Successful completion of Biology and Chemistry with a “B” or better.

ADVANCED PLACEMENT BIOLOGY

2 Hours/2Credits

4370

Grade (10-12)

This course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. Some AP students, as college freshmen, are permitted to undertake upper-level courses in biology or to register for courses for which biology is a prerequisite. Other students may have fulfilled a basic requirement for a laboratory science course and will be able to undertake other courses to pursue their majors. AP Biology should include the topics regularly covered in a college biology course for majors. The textbooks used for AP Biology should be those used by college biology majors and the labs done by AP students must be the equivalent of those done by college students. The AP Biology course is designed to be taken by students after the successful completion of a first course in high school biology and one in high school chemistry. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. *Prerequisites:* Minimum "B" average in Biology I, Chemistry I, Geometry, and Algebra II and high degree of commitment to academic work.

Social Studies

GEOGRAPHY

1 hour/1 unit

2210

Grades 9-12

Geography includes a comprehensive map study as well as a study of cultural, social, economic, and political changes in our interdependent world.

WORLD HISTORY I

1 hour/1 unit

2215

Grades 9-12

This course includes topics from ancient times to 1500 A.D.

WORLD HISTORY II

1 hour/1 unit

2216

Grades 9-12

This course includes topics from 1500 A.D. to the present.

VIRGINIA AND U. S. HISTORY

1 hour/1 unit

2360

Grade 11

This course includes the study of the United States and Virginia from the colonial period to the present. Students are advised to take this course in the junior year.

VIRGINIA AND U. S. HISTORY, Part I

1 hour/1 unit

2361

Grade 11

This course includes the study of the United States and Virginia from the Colonial Period to 1877. To enroll in this course, the student must be working toward a Modified Standard Diploma.

AP VIRGINIA & U.S. HISTORY

1 hour/1

unit 2319

Grade

11

The AP program in United States History is designed to provide students with the analytical skills and enduring understandings necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, their reliability, and their importance—and to weigh the evidence and interpretations presented in historical scholarship. An AP United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format. *Prerequisites:* Minimum "B" average in all history courses and high degree of commitment to academic work.

VIRGINIA AND U.S. GOVERNMENT

1 hour/1 unit

2440

Grade 12

Virginia and United States Government is the study of the principles, institutions, powers, and functions of national, state, and local governments in the United States. *Prerequisite:* Students are encouraged to take this course in the senior year and to have completed U.S. History prior to enrolling in U.S. Government.

AP GOVERNMENT

1 hour/1 unit

2445

Grade 12

The AP Government & Politics: United States course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality. While there is no single approach that an AP Government & Politics: United States course must follow, certain topics are generally covered in college courses. *Prerequisites:* Minimum "B" average in World History II and high degree of commitment to academic work.

IB TWENTIETH CENTURY TOPICS

1 hour/1 unit

2387

Grade 12

This senior honors class focuses on international history and events in the twentieth century. The course will concentrate on the causes, practices, and effects of war, single party states, and the Cold War. In May students sit for the IB History exam. *Prerequisite:* Teacher recommendation and successful completion of IB U.S. History.

ECONOMICS

1 hour/1/2 unit

2800

Grades 11-12

This elective includes a study of how people, businesses and governments use scarce resources to fill needs and wants. Concepts such as business models, opportunity cost, fiscal and monetary policies as well as supply and demand will be analyzed. Students must take the economics and sociology classes of 1/2 unit each. The grades will average for a final semester grade.

SOCIOLOGY

1 hour/1/2 unit

2500

Grades 11-12

Sociology is the study of human relationships and institutions. In this course students will focus on such things as romantic love, racial and gender identity, deviant behavior, crime and punishment, prejudice, discrimination, various religious beliefs and poverty and wealth. Students must take the economics and sociology classes of 1/2 unit each. The grades will average for a final semester grade.

PSYCHOLOGY

1 hour/1 unit

2900

Grade 11-12

This course examines the physical and perceptual development of newborns and children, the role of the family and peers during adolescence, and changes that occur in health and life situations during old age. Students also learn about altered states of consciousness such as sleep, dreams, hypnosis, biofeedback, meditation, and medication. The course includes the ways in which people receive, process, store, retrieve, and analyze information, and the physical and mental factors that cause people to act a specific way at a specific time. Students will investigate the characteristics of psychological tests and explore various types of psychological tests.

AP PSYCHOLOGY

1 hour/1 unit

2902

Grade 11-12

The purpose of the AP course in Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. An introductory college course in psychology is generally one semester in length, with some variation among colleges. An AP course in psychology need not follow any specific college curriculum. Rather, the aim is to provide a learning experience equivalent to that obtained in most college introductory psychology courses. *Prerequisites:* Minimum "B" average in all English courses and high degree of commitment to academic work.

THEORY OF KNOWLEDGE

1 hour / 1/2 unit

2901

Grades 12

Theory of Knowledge is a class where students examine philosophic systems in order to apply them to knowledge questions. Relationships among the ways of knowing in various disciplines and the value of knowledge from different sources will be analyzed.

Wellness**WELLNESS 9**

1 hour/1 unit

7300

Grade 9

Students participate in lifetime individual sports, team sports, weightlifting, and personal fitness activities. Students will be assessed on the Virginia Related Fitness Test and participate in the DARE program/ Family Life curriculum.

WELLNESS 10 AND DRIVER TRAINING

1 hour/1 unit

7425

Grade 10

This course includes family life education, substance use/abuse, and First Aid/CPR and safety. It also includes the Virginia Wellness Related Fitness test, lifetime individual and team activities, and weightlifting and conditioning. In addition, students will have the opportunity to certify in the American Red Cross life guarding, CPR and First Aid upon completion of the course. Students who want Red Cross certification will be expected to pay the Red Cross fees. This course also prepares students to pass the state requirements for a Virginia driver's license. Students not taking or passing Driver Education must wait until age 19 to obtain a license. *Prerequisite:* Successful completion of Wellness 9.

LIFETIME FITNESS AND CONDITIONING LEVEL I

1 hour/1 unit

7640

Grades 11-12

This class is designed to enhance the student's overall level of physical fitness. Any student interested in weight management, body shaping, or athletic power may choose this elective class. With an emphasis in weight lifting, other low level activities will include jumping rope, agility drills, and flexibility. This course is an elective and does not count as one of the two required wellness credits.

LIFETIME FITNESS AND CONDITIONING LEVEL II

1 hour/1 unit

7650

Grades 12

This class is designed for those students who have completed a level one course. Intensity levels will increase and new lifting techniques will be introduced. Speed, agility and quickness drills will also be included in this class. This class is an elective and does not count as one of the two required wellness credits. *Prerequisite:* Successful completion Lifetime Fitness and Conditioning Level I.

Foreign Language**FRENCH I**

1 hour/1 unit

5110

Grades 9-12

Students are introduced to the French language through listening, speaking, reading and writing activities that reflect practical situations of daily life. The culture of the French-speaking world is interwoven into each lesson. Participation in class, memorization of vocabulary and verb conjugations and daily practice are essential for success in French I. *Prerequisite:* A grade of "C" or better in English, and English teacher's recommendation

FRENCH II

1 hour/1 unit

5120

Grades 9-12

French II emphasizes the ability to communicate in the language. The student will continue to develop and apply the skills acquired in French I. *Prerequisite:* A grade of "C" or better in French I and teacher recommendation

FRENCH III

unit 5130

Grades 9-12

French III is a more intense study and application of the skills acquired in the previous levels.

Prerequisite: A grade of "C" or better in French II and teacher recommendation

1 hour/1

FRENCH IV

5140

Grades 11-12

There is an emphasis on strengthening applications of skills learned in the previous levels. Using appropriate vocabulary and grammar, the student will participate in oral, reading comprehension, and writing activities. The student will be required to make formal presentations and to take part in interviews and discussions. The student will be required to extract information from different literary sources, such as newspapers, magazines, short stories, and essays and to write compositions and dialogues. Individual portfolios will document the student's progress. *Prerequisite:* A grade of "B" or better in French III and teacher recommendation

1 hour/1 unit

FRENCH V

5150

Grades 11-12

The aim of this course is to enable students to clearly communicate ideas orally and in writing. Students will develop the ability to describe, narrate, paraphrase, compare and contrast ideas presented in a wide range of contexts and settings through the study of course themes. Grammar and vocabulary review and study will be derived from the various texts that are studied. A wide variety of texts will be used. These include, newspapers, magazines, videos, taped recordings, as well as textbooks. *Prerequisite:* A grade of "B" or better in French IV and teacher recommendation

1 hour/1 unit

SPANISH I

5510

Grades 9-12

Students are introduced to the Spanish language through listening, speaking, reading, and writing activities that reflect practical situations of daily life. The culture of the Spanish-speaking world is interwoven into each lesson. Participation in class, memorization of vocabulary and verb conjugations, and daily practice are essential for success in Spanish I. *Prerequisite:* A grade of "C" or better in English and English teacher's recommendation.

1 hour/1 unit

SPANISH II

5520

Grades 9-12

Spanish II emphasizes the ability to communicate in the language. Students will continue to develop and apply the skills acquired in Spanish I. *Prerequisite:* A grade of "C" or better in Spanish I and teacher recommendation

1 hour/1 unit

SPANISH III

5530

Grades 9-12

Spanish III is a more intense study and application of the skills acquired in the previous levels.

Prerequisite: A grade of "C" or better in Spanish II and teacher recommendation

1 hour/1 unit

SPANISH IV

5540

12

This course begins the student's preparation for taking the AP Spanish examination at the standard level. The aim of this course is to enable students to clearly communicate ideas orally and in writing. Students will develop the ability to describe, narrate, paraphrase, compare and contrast ideas presented in a wide range of contexts and settings through the study of course themes. Grammar and vocabulary review and study will be derived from the various texts that are studied. A wide variety of texts will be used. These include newspapers, magazines, videos, taped recordings as well as textbooks. *Prerequisite:* A grade of "B" or better in Spanish III and teacher recommendation

1 hour/1 unit

Grades 11-

SPANISH V

1 hour/1 unit

5550

Grades 11-12

This course will continue the student's preparation for taking the final AP Spanish examination. The aim of this course is to enable students to clearly communicate ideas orally and in writing. Students will develop the ability to describe, narrate, paraphrase, compare and contrast ideas presented in a wide range of contexts and settings through the study of course themes. Grammar and vocabulary review and study will be derived from the various texts that are studied. A wide variety of texts will be used. These include, newspapers, magazines, videos, taped recordings, as well as textbooks. *Prerequisite:* A grade of "B" or better in Spanish IV and teacher recommendation

Fine Arts**CRAFT DESIGN**

1 hour/1 unit

9160

Grades 9-12

This art course is intended for selected students working on a Modified Standard Diploma or IEP Certificate. The course will feature craft projects. To enroll students must have teacher recommendation.

ART I

1 hour/1 unit

9120

Grades 9-12

This course acquaints the student with basic art concepts, materials, and techniques. Art history, appreciation, basic design, basic drawing, practical composition, and 3D sculpture are integral parts of Art I.

ART II

1 hour/1 unit

9130

Grades 10-12

This course is a study in color, advanced design, and sculpture using a wide variety of media. Compositions are representational and imaginative. Students work independently on skill building projects. *Prerequisite:* Art I

ART III

1 hour/1 unit

9140

Grades 11-12

In this course students are guided to form their own drawing and painting styles and to select and use a variety of media. Greater individualism and self-reliance are expected of the student in the planning and formulating of projects. Participation is encouraged in local and state exhibits and competitions. *Prerequisite:* Art II

ART IV

1 hour/1 unit

9145

Grades 11-12

Advanced Art is for the student who has expressed a deep interest in art and who plans a career in art or an allied field. Students select individual projects for concentrated exploration. This class offers the student the opportunity to develop an art portfolio for contests and scholarship applications. Self motivation is highly encouraged. *Prerequisite:* Art III

BAND

1 hour/1 unit

9232,9233,9234,9239

Grades 9-12

Students participate in the Bearcat Band, a performing group. Performance activities include concerts, assemblies, festivals, athletic events, and parades. The emphasis is on instrument technique, musicianship, and music theory. *Prerequisite:* Recommendation of the middle school band director and/or by audition by the high school band director

PERCUSSION

1 hour/1 unit

9250A, 9250B, 9250C, 9250D

Grades 9-12

Students develop individual and group musical skills in an environment geared toward the developing percussion techniques with various instruments. Students will participate with Marching Band and Concert band outside of class. The students will also learn percussion ensemble techniques normally not associated with concert band. *Prerequisite:* Recommendation of the instructor

MIXED CHORUS

1 hour/1 unit

9280

Grades 9-12

Mixed Chorus is open to all students with an interest in choral singing. The course emphasizes performance and the development of musical understanding and skills. Studies include vocal/choral technique (free and open tone with emphasis on vowel production and clarity of consonants); sight singing (the ability to read and perform musical notation, both pitch and rhythm); and an appreciation of period and style in choral music. The Mixed Chorus performs in the Christmas Concert and the Spring Concert. Members may also participate in a boys or girls chorus and in combination with the other choirs.

CONCERT CHOIR

1 hour/1 unit

9285

Grades 10-12

Concert Choir is a class for sophomores, juniors and seniors who have demonstrated their ability in singing, general musicianship and dedication to choral excellence. Concert Choir emphasizes performance and the continuing development of vocal/choral techniques and appreciation of a variety of periods and styles in choral music. Concert Choir performs in the Christmas Concert and the Spring Concert and at area schools and churches. *Prerequisite:* Recommendation of the instructor

CHORALE

1 hour/1 unit

9289

Grades 10-12

Chorale is a select group of singers whose superior vocal and musical attainment make possible advanced choral proficiency. Members will have demonstrated excellence in singing, musicianship and dedication to choral performance. Chorale emphasizes extensive reading and performance of a large amount of choral repertoire while utilizing good vocal technique. Chorale performs in the Christmas Concert and Spring Concert and for area civic groups. *Prerequisite:* Recommendation of the instructor

Business, Computer and Office Education

The Business Program offerings are designed to help students develop business skills such as computer applications and/or office related skills in preparation for entering business occupations and/or for pursuing additional education.

BUSINESS COOPERATIVE OFFICE EDUCATION

1 hour/1 unit

6799A, 6799B

Grades 11-12

Students enrolled in the co-op program work part of the day in an approved business or office position. Students must also be enrolled in one of the following business courses: Advanced Computer Information Systems, Desktop/Multimedia and Web Technologies, Advanced Desktop/Multimedia and Web Technologies, C++ Programming, IB Information Technology in a Global Society, Business Law, or Accounting. Students can receive one co-op credit for a minimum of 270 hours of work (approximately 8 hours a week) and two co-op credits for 540 hours (approximately 15 hours a week). Students are supervised and graded by the employer as well as a business teacher/coordinator. *Prerequisite:* Computer Information Systems

COMPUTER INFORMATION SYSTEMS

1 hour/1 unit

6612

Grades 9 -12

Students apply problem-solving skills to real-life situations through a) database, spreadsheet, and word processing software; b) charting; and c) integrated activities. They work individually and in groups to explore data/telecommunications, operating systems, and networking principles. *Prerequisite:* Keyboarding

ADVANCED COMPUTER INFORMATION SYSTEMS

1 hour/1 unit

6613

Grades 10-12

Students study advanced integrated applications, programming (such as Visual Basic and HTML), web page design, telecommunications, and the impact of new and emerging technologies in each of these areas. *Prerequisite:* Computer Information Systems

BUSINESS LAW

1 hour/1 unit

6131

Grades 10-12

Students examine the foundations of the American legal system. They explore economic and social concepts as they relate to legal principles and to business and personal laws. *Prerequisite:* Computer Information Systems

ACCOUNTING I

1 hour/1 unit

6320

Grades 10-12

Students study the basic principles, concepts, and practices in the accounting cycle. Students learn fundamental accounting procedures, using a manual and an electronic system. *Prerequisite:* Computer Information Systems

ECONOMICS AND PERSONAL FINANCE - 36 weeks

1 hour/1 unit

6120

Grades 10-12

Students learn how to navigate the financial decisions they must face and to make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living independently, and inheritance. Development of financial literacy skills and an understanding of economic principles will provide the basis for responsible citizenship and career success. In addition to developing personal finance skills, students in the 36-week course will also study basic occupational skills and concepts in preparation for entry-level employment in the field of finance. The course incorporates all economics and financial literacy objectives included in the *Code of Virginia* §22.1-200-03B.

ACCOUNTING II

1 hour/1 unit

6321

Grades 11-12

Accounting II uses an Automated Accounting approach to incorporate skills and principles from Accounting I. It provides a hands-on approach to learning how modern computerized accounting systems function using popular industry based software such as QuickBooks. Students will also integrate accounting skills with other business applications such as spreadsheets and word processors and relate it to careers and employment in the accounting field. *Pre-requisite:* Accounting I

DESIGN, MULTIMEDIA, AND WEB TECHNOLOGIES

1 hour/1 unit

6630

Grades 10-12

Students develop proficiency in using design publishing software to create a variety of business publications. Students work with sophisticated hardware and software to develop multimedia presentations. *Prerequisite:* Computer Information Systems recommended

ADVANCED DESIGN, MULTIMEDIA, AND WEB TECHNOLOGIES

1 hour/1 unit

6631

Grades 11-12

This course is an extension of Design, Multimedia and Web Technologies presentations. Students work extensively on web site design. Students learn video editing and production using the latest technology and produce the Cat Chat news show. *Prerequisite:* Design, Multimedia and Web Technologies

DE GAMING AND ROBOTICS PROGRAMMING

1 hour/1 unit

6640

Grades 10-12

Dual Enrollment

This Virginia Highlands Community college dual enrollment course provides an introduction to programming in a collaborative learning environment. Students will use Alice Game Maker software to create gaming situations along with Lego robotics. *Pre-requisite:* Algebra I

C++ COMPUTER PROGRAMMING

1 hour/1 unit

6641

Grades 10-12

Students learn to write and execute computer programs for business applications. The course emphasizes electronic data processing systems. Students will learn the high-level language C++. *Prerequisite:* Computer Information Systems and Gaming and Robotics programming

IB INFORMATION TECHNOLOGY IN A GLOBAL SOCIETY

1 hour/1 unit

IB6613

Grades 11-12

This course studies and evaluates the impact of information technology on individuals and society. It explores the advantages and disadvantages of the use of digitized information at the local and global level. It provides a framework for students to make informed judgments and decisions about the use of IT within social contexts. This is a 5-point course and students must be at least a junior to enroll. *Prerequisite:* Proficient computer skills and recommendation of instructor

SPECIAL PROGRAMS

BUSINESS--INDIVIDUALIZED EDUCATION PROGRAM

1 hour/1 unit

6745

Grades 9-12

This course is designed to serve students with special needs who desire to learn keyboarding skills using the touch-system. Emphasis is placed on mastering the alphabetic keyboard, numeric keyboard and document preparation including letters, memoranda, tables, and reports. Students are also introduced to basic word processing skills using Microsoft Word. The course is developed cooperatively between business teachers and special education personnel based on each student's individual needs.

Trade and Industrial Education

OFFICE SPECIALIST I

1 hour/1 unit

6740

Grades 9-12

Students complete the Office Specialist sequence identified locally or progress in the sequence until prepared to transfer into other business courses. Students develop skills in areas including keyboarding, word processing, office procedures, and records management.

AUTOMOTIVE SERVICE TECHNOLOGY I

1 hour/1 unit

8506

Grades 10-12

The first year of this course introduces the student to the field of automotive technology, covering careers, tools, equipment, use of manuals, safety, fluid maintenance, fasteners, gaskets, seals, the fundamentals of engine construction and operation, and engine tune-ups. The course meets for one hour every day.

AUTOMOTIVE SERVICE TECHNOLOGY II

2 hours/2 unit

8507

Grades 10-12

The second year combines theory with service, covering all vehicle systems. The subject matter is arranged so the student first studies fundamental operation and system construction. When the system is fully understood, the student moves to diagnosis, service, and system repair. This course meets for a two-hour block each day. *Prerequisite:* Automotive Service Technology I

AUTOMOTIVE SERVICE TECHNOLOGY III

3 hours/3 units

8508

Grades 11-12

The third year consists of hands-on diagnosis and repair in an actual automotive shop setting. Third year students establish their own methods of troubleshooting and develop skills in repairing fuel injection systems, transmissions, suspension, and other automotive systems. Students are also tested on their automotive knowledge by taking the ASE certification test. This course meets for a three-hour block each day. *Prerequisite:* Automotive Service Technology II

DE COMPUTER NETWORKING I

1 hour/1 unit

8542, 8543 (TEL 150-151)

Grades 11-12

Dual Enrollment

This is the first course of a two-year sequence designed to provide students with classroom and laboratory experience in current and emerging networking technology that will empower them to enter employment and/or further education and training in the computer network field. Particular emphasis is given to the use of decision-making and problem-solving techniques in applying science, mathematics and communications to solve networking problems. This is a dual enrollment course through Virginia Highlands Community College

DE COMPUTER NETWORKING II

1 hour/1 unit

8544, 8545 (TEL 250-251) Grade 12

Dual Enrollment

This is the second course of a two-year sequence designed to provide students with the knowledge to successfully take and pass the C.N.A. exam. Laboratory assignments deal with the total operation of a LAN. This is a dual enrollment course through Virginia Highlands Community College. *Prerequisite:* Computer Networking I

DE IT ESSENTIALS

8622 (ITN 106-107)

Grades 10-12

1 hour/1 unit

Dual Enrollment

Computer repair is one of the most sought after entry-level positions in industry. This course covers a broad range of hardware, software, and networking technologies. Students will learn how to construct, troubleshoot, service and repair computer systems. They will also learn how to install and maintain basic local area networks. This is a dual enrollment course through Virginia Highlands Community College

COSMETOLOGY I

8527

Grade 10

1 hour/1 unit

Cosmetology I is a one-period course which introduces students to selected theory and manipulative skills required of a licensed cosmetologist. The course emphasizes safety and sanitation procedures, bacteriology, professional ethics, and the basic skills associated with hair styling and coloring, permanent waving and manicuring procedures.

COSMETOLOGY II

8528

Grade 11

2 hours/2 units

Cosmetology II is a two-period course in which students continue their study of the theory and practice of the manipulative skills required for licensure. The course reinforces the competencies taught in Cosmetology I with emphasis on cosmetic chemistry, facials, wiggery, and chemical relaxing. *Prerequisite:* Cosmetology I and teacher recommendation

COSMETOLOGY III

8529

Grade 12

3 hours/3 unit

Cosmetology III is a three-period course in which students advance their study of the theory and practice of the manipulative skills required for licensure. The course reinforces the competencies taught in Cosmetology I and II with emphasis on anatomy and physiology, advanced hair design techniques and salon management in preparation for state licensure. *Prerequisite:* Cosmetology II and teacher recommendation

NAIL TECHNOLOGY

8692, 8693

Grades 11-12

2 hours/2 units

This course prepares students for the Virginia State Board of Cosmetology Nail Technician Certification. Students learn safety and sanitation fundamentals, as well as how to apply and remove acrylic, gel, and fiberglass nails and nail tips. Students also learn about salon management. The course meets for a two-hour block each day.

CRIMINAL JUSTICE I

8702

Grades 11-12

1 hour/ 1 unit

This is the first in a two-year sequence of courses focusing on the field of law enforcement. Students will be introduced to basics of law enforcement, and corrections. Students will learn basic fingerprinting, court procedures and prison design.

CRIMINAL JUSTICE II

1 hour/ 1 unit

8703 (ADJ 115 and 130) Grades 11-12

This course is the second year of a two-year sequence. Students will examine criminal investigations; procedures for search and seizure, arresting and maintaining custody of suspects; and court proceedings. *Prerequisite:* Criminal Justice I

CRIMINAL JUSTICE III

1 hour/ 1 unit

8704 Grade 12

Students will learn the principles, techniques, and practices for pursuing careers in the criminal justice system. *Prerequisite:* Criminal Justice I and II

INTRODUCTION TO CULINARY ARTS

1 hour/1 unit

8250 Grades 9-12

Students will explore careers in the culinary and hospitality fields, sanitation and safety, basic culinary skills such as knife skills, reading recipes, and using equipment to execute food products. This class will also explore diverse cuisines and serving styles, nutrition, menu development and the foundations of culinary preparations.

DE CULINARY ARTS I

2 hour/2 unit

8275 Grades 10-12

Dual Enrollment

Students practice managerial, production, and service skills used in government, commercial, or independently owned institutional food establishments and related food industry occupations. Students plan, select, store, purchase, prepare and serve food and food products. They study basic nutrition, sanitation, and food safety; the use and care of commercial equipment; and the operation of institutional food establishments. Critical thinking, practical problem solving, and entrepreneurship opportunities within the field of culinary arts are emphasized. Basic skills of mathematics, science, and communications are highlighted when appropriate in content.

DE CULINARY ARTS II

3 hour/3 unit

8276 Grades 11-12

Dual Enrollment

Culinary Arts II provides students an opportunity to refine skills in serving, dining room management, and other skills learned in Culinary Arts I. Students prepare for occupation such as chef/cook, baker/pastry helper, pastry decorator, hospitality worker, dietetic aide/assistant, food demonstrator, and entrepreneur. Critical thinking, practical problem solving, and entrepreneurship opportunities within the field of culinary arts are emphasized. Basic skills of mathematics, science, and communications are highlighted when appropriate in content.

HOUSEHOLD MAINTENANCE

1 hour/1 unit

8590 Grades 9-12

In this course, students learn to service a variety of structures, including commercial and industrial buildings, as well as taking care of one's own home. Topics include basic cleaning and maintenance and repair skills relating to air conditioning, heating, plumbing and electrical systems. Upon successful completion of this course, students will have the skills to gain employment in the custodial field.

INTRODUCTION TO EDUCATION FOR EMPLOYMENT

1 hour/1 unit

9082, 9083 Grades 9-12

This course prepares students belonging to targeted populations for independent living and productive careers. Students begin to develop employability and independent living skills as they blend their academic and vocational studies to solve real-life problems. This course is available only to selected students with an Individual Education Plan.

TECHNICAL DRAWING AND DESIGN

8435 Grades 9-12

Students will learn the basic language of technical design, and they design, sketch, and make technical drawings, models, or prototypes or real design problems. The course is especially recommended for future engineering and architecture students.

Marketing

A student may choose to take a sequence of courses in (1) General Marketing, (2) Fashion Marketing, (3) Sports Marketing, and (4) Internet Marketing. Marketing courses prepare students for entry-level positions and/or continued education in a variety of careers that require knowledge of communications, economics, and psychology as well as techniques in sales, promotion, and management. Examples include sales, public relations, business management, product design and merchandising, fund-raising, advertising and promotion using all types of media and international marketing.

PRINCIPLES OF BUSINESS AND MARKETING

1 hour/1 unit

8115 Grades 9-10

Students discover the roles of business and marketing in the free enterprise system and the global economy. Basic financial concepts of banking, insurance, credit, inheritance, taxation, and investments are investigated to provide a strong background as students prepare to make sound decisions as consumers, wage earners, and citizens. The real world impact of technology, effective communication, and interpersonal skills are evident throughout the course. This course also supports career development skills and explores career options.

MARKETING BASICS

1 hour/1-3 units with co-op

8120

Grades 10-12

11-12 only with co-op

This course addresses the functions involved in the marketing of goods and services and provides students with the competencies necessary for successful marketing employment. The development of competencies in the areas of personal selling, advertising, visual merchandising, physical distribution, purchasing, market planning, product/service technology, and marketing mathematics enable students to become well-rounded marketing employees who contribute to the success of marketing businesses.

DE MARKETING ESSENTIALS

1 hour/1-3 units with co-op

8130 (MKT 100)

Grade 12

Dual Enrollment

Marketing Essentials is designed to provide students with an in-depth knowledge of the marketing functions and the supervisory and management responsibilities for those functions, and competencies important for successful supervisory management employment and advancement to other management positions. Students develop advanced marketing competencies in professional selling, marketing planning, marketing mathematics, purchasing, physical distribution, advertising, and visual merchandising as well as economic and social competencies related to the supervision of marketing employees. Marketing Basics (8120) is not required in order to take this class. Any student who is a senior is eligible. This is a dual enrollment course through Virginia Highlands Community College. *Prerequisite:* 2.8 Grade point average is required for this college level class.

FASHION BASICS

1 hour/1-3 units with co-op

8140

Grades 10-12

11-12 only with co-op

Fashion Basics is a specialized course designed to provide interested students with basic knowledge of the apparel and accessories industry and with the competencies necessary for successful employment in apparel businesses. In the course, students develop general marketing competencies necessary for successful employment in fashion marketing, general marketing competencies applied to the apparel and accessories industry, and specialized competencies unique to fashion marketing. These include personal selling, sales promotion, purchasing, physical distribution, marketing planning, product-service technology, and marketing mathematics.

FASHION ESSENTIALS

1 hour/1-3 units with co-op

8145

Grade 11-12

Fashion Essentials is a course for students with an interest in apparel and accessories marketing. It is designed to provide these students with an in-depth knowledge of the apparel and accessories industry and with competencies important for supervisory-management employment in apparel businesses. Students develop advanced competencies unique to fashion marketing and advanced general marketing competencies applied to buying, merchandising, marketing research, product/service technology, marketing mathematics, and supervision of employees. Fashion Basics (8140) is not required in order to take this class. Any student who is a senior is eligible.

SPORTS AND ENTERTAINMENT MARKETING

1 hour/1-3 units with co-op

8175Grades 10-12

11-12 only with co-op Sports Marketing is a

specialized course which provides students with a knowledge of the operation of the sports industry. In addition to providing a fundamental knowledge of global marketing, this course is designed to equip students with entry-level competencies in the areas of sponsorship, promotion, advertising, legal contracts, agents, event marketing, and communications. Students will also obtain a thorough understanding of the career options available in this field.

ADVANCED SPORTS AND ENTERTAINMENT MARKETING

1 hour/ 1-3 units with co-op

8177Grade 11-12

Students will continue their study of the sports, entertainment, and recreation industry including the impact of electronic marketing and international marketing in this area. Other topics include market research, market segmentation, and sponsorship as well as planning, implementing, promoting, and evaluating SER events. Additional study will focus on working with agents and personal managers, appraising the role of labor unions, and developing a career plan.

INTERNET MARKETING

1 hour/1-3 units with co-op

8125Grades 10-12

11-12 only with co-op

Lack of marketing knowledge is one of the reasons why so many e-companies are folding today. This course is not buying and selling on the Internet, but rather, focuses on marketing, servicing, and promoting products and using electronic technology. Students will learn the essential skills and information to be successful in today's e-commerce market. No previous marketing class is required to take this course.

MARKETING COOPERATIVE EDUCATION

1-2 hours/1-2 units

8120 A/B

Grades 11-12

In addition to taking a marketing course, the student may choose to receive additional credits for work experience. He/she must be 16 years of age or have a valid work permit. Students can receive one co-op credit for a minimum of 198 hours of work (approximately 5 1/2 hours a week) and or two co-op credits for 396 hours throughout the school year. The training takes place in an appropriate local marketing business and is planned, supervised, and documented on a training plan by the marketing teacher-coordinator. Prior approval must be given by the marketing teacher-coordinator on the first day of school in order to utilize the co-op option for any marketing course. The student may elect to have up to two co-op periods in his/her schedule.

VIRGINIA TEACHERS FOR TOMORROW

1 unit

9062

This course introduces qualified seniors to a career in teaching and education through the Career Connections program. The primary elements of the curriculum components are *the learner, the school, and the teacher and teaching*. The components are intentionally broad in scope and provide a great deal of flexibility based on the career interest of a student. In addition to the fundamental curriculum components, all students are required to participate in an internship outside the Virginia Teachers for Tomorrow classroom. The internship may involve the pre-school level through grade 12.