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MOUNT VERNON  
COURSE CATALOG  
2011-2012

**MOUNT VERNON HIGH SCHOOL  
Administrative Staff**

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Director of Student Services	Malicia Braxton
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Director of Student Activities	Bob Maxey
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IB Coordinator	Daniel Coast

**Student Services Staff  
Counselors**

<b>9<sup>th</sup> Grade Counselors</b>	
TBA	A - Jo
Linda Romanchok	JP - Z
<b>10<sup>th</sup> – 12<sup>th</sup> Grade Counselors</b>	
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Margaret Stasikowski	Coo - Hai
Rachel Margolis	Haj – Med
Toni Newton-Jones	Mee – Ruf
Colleen Hanrahan	Rug - Z
Virginia Justis	A-Z Comprehensive Services Site

Career Center Specialist	Audrey Jones
Student Services Admin. Assistant	Linda Alvarez
Student Information Assistant	Barbara Redfearn
Transcript Admin. Assistant	TBA

**The Course Selection Process**

Dear Student:

Course selection is a serious matter that requires thorough research of the information in this catalog as well as discussion with your counselor, your parents/guardians and your teachers. When selecting courses, you should consider your interests, future educational pursuits and occupational goals. You should also reflect on your own achievements and areas in which you wish to improve. In other words, course selection involves important personal decisions that require your thoughtful attention. We suggest the following:

- Review requirements for each type of diploma
- Review course descriptions and prerequisites
- Consider your personal educational goals for the high school years and post secondary years
- Discuss with your counselor, teachers and parents/guardians any concerns or questions you have about courses, credits, and types of diplomas available to you.

We hope that this guide will be helpful to you in selecting courses for the 2011-12 school year. Keep in mind that any **changes to your course selections must be made prior to June 24, 2011.** We look forward to working with you. Should you have any questions, please contact your counselor as soon as possible. We wish you a successful school year!

Malicia Braxton  
Director of Student Services

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# MOUNT VERNON HIGH SCHOOL'S INTERNATIONAL BACCALAUREATE (IB) PROGRAM

The International Baccalaureate Program is a rigorous, advanced level, college preparatory program offered in the final two years of high school. The program was developed by the International Baccalaureate Organization in Geneva, Switzerland, in the 1960's. Students can take IB courses if prerequisites have been successfully completed for specific subjects, if they are highly motivated, and if they are willing to put in additional time and effort. Each student registered in an IB course with an exam is expected to take that exam. IT SHOULD BE EMPHASIZED THAT A STUDENT MAY BE ELIGIBLE TO TAKE INDIVIDUAL IB COURSES OR THE FULL IB DIPLOMA. Students who take the full IB Diploma will also receive the State of Virginia Advanced Studies Diploma. THE DECISION TO TAKE THE FULL IB DIPLOMA PROGRAM IS A SERIOUS ONE THAT IS BEST MADE IN CONSULTATION WITH THE MOUNT VERNON IB COORDINATOR, THE STUDENT'S PARENTS/GUARDIANS, AND THE STUDENT'S COUNSELOR.

Leading universities throughout the United States award advanced placement credit or advanced standing in college courses for IB exams that are successfully passed. Students are internally assessed by their IB teachers and, as on Advanced Placement exams, they are assessed through an external exam. Exams are developed and graded by the IB Office in Cardiff, Wales. To complete a full IB Diploma program, a student must successfully pass courses in six subject areas (subject areas are also referred to as "groups"). Three of the subjects must be at the Higher Level (HL) and three must be at the Standard Level (SL). The six groups or subjects include IB English, IB History, IB Science, IB Foreign Language, and IB Mathematics. The sixth subject may be chosen from IB Art, IB Music, IB Theatre Arts, IB Computer Science, IB Business and Management, IB Social and Cultural Anthropology, IB Environmental Systems and Societies or an additional IB offering from foreign language or science.

The following is a recommended course sequence for IB Diploma candidates. Please contact Mr. Daniel Coast, IB Coordinator at Mount Vernon High School, for further information (703-619-3137).

## Grade 8

Algebra I  
Spanish I, French I, or German I

## Grade 9

Honors English 9  
Honors World History  
Spanish 2, French 2, or German 2  
Honors Biology  
Honors or Regular Geometry  
Health and PE 9  
Elective (Art I, Band, Chorus, etc.)

## Grade 10

Honors English 10  
Honors Comparative Government  
Spanish 3, French 3, or German 3  
IB Chemistry 1 or IB Physics I  
Algebra 2 Honors or Regular Algebra 2  
Health and PE 10  
Elective

## Grade 11

IB English I  
IB History of the Americas I  
IB Spanish I, IB French I, or IB German I  
IB Math SL I, IB Math HL I  
IB Biology I, IB Chemistry I, IB Physics I, or IB Physics II SL  
IB Elective (IB Environmental Systems SL, IB Music I, IB Computer Science SL, IB Theatre Arts I, IB Business and Management I SL, IB Visual Arts I, or Second Science)  
IB Theory of Knowledge  
Elective

## Grade 12

IB English II HL  
IB Topics in 20<sup>th</sup> Century World History II HL  
IB Spanish II SL/HL, IB French II SL/HL, or IB German II SL/HL  
IB Mathematics II HL, IB Mathematics II SL,  
or IB Math Studies SL  
IB Biology II SL/HL, IB Chemistry II SL/HL, or IB Physics II SL  
IB Theory of Knowledge  
Elective

## IB COURSE OFFERINGS

### ENGLISH

IB English I  
IB English HL II

### MATHEMATICS

IB Mathematics HL I and HL II  
IB Mathematics SL I and SL II  
IB Mathematical Studies SL  
IB Computer Science SL

### FINE & PERFORMING ARTS

IB Theatre Arts I  
IB Theatre Arts II SL or HL

IB Visual Arts I  
IB Visual Arts II SL or HL  
IB Music I  
IB Music II SL or HL

### Business & General Study

IB Business and Management I SL  
IB Business and Management II HL  
IB Theory of Knowledge

### SOCIAL STUDIES

IB History of the Americas I  
IB Topics in 20<sup>th</sup> Century World History II HL

### FOREIGN LANGUAGE

IB French I  
IB French II SL or HL  
IB French Fluent Sp A2 SL or HL  
IB German I  
IB German II SL or HL  
IB Spanish I  
IB Spanish II SL or HL  
IB Spanish Fluent Sp A2 SL or HL  
IB Spanish A1 Language and Literature SL or HL

### SCIENCE

IB Biology I  
IB Biology II SL or HL  
IB Chemistry I  
IB Chemistry II SL or HL  
IB Physics I  
IB Physics II SL  
IB Environmental Systems SL

GRADUATION REQUIREMENTS FOR STUDENTS ENTERING 9<sup>TH</sup> GRADE FOR THE FIRST TIME PRIOR TO 2011-12 SCHOOL YEAR.

**STANDARD DIPLOMA**

**22 CREDIT DIPLOMA REQUIREMENTS FOR GRADUATION**

The requirements for a student to earn a diploma shall be those in effect when the student enters the 9<sup>th</sup> grade for the first time. The following applies to 9<sup>th</sup> grade students who entered high school prior to 2011-2012.

To graduate from high school, students shall meet the minimum requirements for the Standard Diploma as outlined below, including 22 standard credits, 6 of which must be verified credits. A **standard** credit is earned when a student passes a course. A **verified** credit is earned when a student passes a course and the associated end-of-course SOL test. In some cases, students may utilize substitute tests, certifications, or the appeal process to earn verified credits. State guidelines prescribe the number of verified credits required for graduation for students entering a Virginia public high school for the first time during the tenth grade or after. Consult your school counselor for specific information.

Students receive credit toward graduation for high school courses taken and passed in middle school. These courses count toward credits in the required sequences as well as toward the total number of credits required for graduation and calculation of the grade point average (GPA). **Middle school parents may request that grades for any high school credit-bearing course taken in the middle school be removed from the student’s high school transcript, and therefore the student will not earn high school credit for the course. In addition, the student will not be eligible for a verified credit in any course which has been removed from the transcript. The request to remove a course from the transcript must be made in writing to the middle or high school the student will attend the following year, prior to the end of the first nine weeks.**

<b>Standard Diploma Course Requirements (8 VAC 20-131-50)</b>		
<b>Subject Area</b>	<b>Standard Credits</b>	<b>Verified Credits</b>
English	4	2
Mathematics <sup>1, 1a</sup>	3	1
Laboratory Science <sup>2, 6</sup>	3	1
History and Social Sciences <sup>3, 6</sup>	4	1
Health and Physical Education	2	
Fine Arts or Career and Technical Ed	1	
Electives <sup>4</sup>	5	
Student Selected Test <sup>5</sup>		1
<b>Total Credits</b>	<b>22</b>	<b>6</b>

<sup>1</sup>For students who entered prior to 2010-2011: Courses completed to satisfy this requirement shall be at or above the level of algebra and shall include at least two course selections from among Algebra I, Geometry, Algebra II, or other mathematics courses above the level of algebra and geometry. The Board of Education may approve additional courses to satisfy this requirement.

<sup>1a</sup>For students who entered during 2010-2011: Courses completed to satisfy this requirement shall include at least two different course selections from among: Algebra I, Geometry, Algebra II, or other mathematics courses above the level of Algebra II. The Board of Education shall approve additional courses to satisfy this requirement.

<sup>2</sup> Courses completed to satisfy this requirement shall include course selections from at least three different science disciplines: earth sciences, biology, chemistry, or physics. The Board may approve additional courses to satisfy this requirement.

<sup>3</sup> Courses completed to satisfy this requirement are U.S. and Virginia History, U.S. and Virginia Government, and World History/Geography I and World History/Geography II. AP World History satisfies the requirement for World History/Geography II.

<sup>4</sup> Courses to satisfy this requirement shall include at least two sequential electives.

<sup>5</sup> A student may utilize additional tests for earning verified credit in computer science, technology, career and technical education or other areas as prescribed by the Board of Education in 8 VAC 20-131-110.

<sup>6</sup> Students who complete a career and technical education program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association or acquires a professional license in a career and technical educational 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 sciences 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.

# ADVANCED STUDIES DIPLOMA

## 24 CREDIT DIPLOMA REQUIREMENTS FOR GRADUATION

The requirements for a student to earn a diploma shall be those in effect when the student enters the 9th grade for the first time. The following applies to 9<sup>th</sup> grade students who entered high school prior to 2011-2012.

To graduate from high school with an Advanced Studies Diploma, students shall meet the minimum requirements as outlined below which include 24 credits, 9 of which must be verified credits. A **standard** credit is earned when a student passes a course. A **verified** credit is earned when a student passes a course and the associated end-of-course SOL test. In some cases, students may utilize substitute tests or certifications to earn verified credits. State guidelines prescribe the number of verified credits required for graduation for students entering a Virginia public high school for the first time during tenth grade or after. Consult your school counselor for specific information.

Students receive credit toward graduation for high school courses taken and passed in middle school. These courses count toward credits in the required sequences as well as toward the total number of credits required for graduation and calculation of the grade point average (GPA). **Middle school parents may request that grades for any high school credit-bearing course taken in the middle school be removed from the student's high school transcript, and therefore the student will not earn high school credit for the course. In addition, the student will not be eligible for a verified credit in any course which has been removed from the transcript. The request to remove a course from the transcript must be made in writing to the middle or high school the student will attend the following year prior to the end of the first nine weeks.**

Advanced Studies Diploma Course Requirements (8 VAC 20-131-50)		
Subject Area	Standard Credits	Verified Credits
English	4	2
Mathematics <sup>1, 1a</sup>	4	2
Laboratory Science <sup>2</sup>	4	2
History and Social Science <sup>3</sup>	4	2
*World Language <sup>4</sup>	3	
Health and Physical Education	2	
Fine Arts or Career and Technical Ed	1	
Electives	2	
Student Selected Test <sup>5</sup>		1
<b>Total Credits</b>	<b>24</b>	<b>9</b>

\*Foreign Language is designated World Language in Fairfax County Public Schools.

<sup>1</sup>For students who entered prior to 2010-2011: Courses completed to satisfy this requirement shall be at or above the level of algebra and shall include at least three course selections from among Algebra I, Geometry, Algebra II, or other mathematics courses above the level of algebra and geometry. The Board of Education may approve additional courses to satisfy this requirement.

<sup>1a</sup>For students who entered during 2010-2011: Courses completed to satisfy this requirement shall include at least three different course selections from among: Algebra I, Geometry, Algebra II, or other mathematics courses above the level of Algebra II. The Board of Education shall approve additional courses to satisfy this requirement.

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

<sup>3</sup>Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, and World History/Geography I and World History/Geography II. AP World History satisfies the requirement for World History/Geography II.

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

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

## **MODIFIED STANDARD DIPLOMA**

### **20 CREDIT DIPLOMA REQUIREMENT FOR GRADUATION**

The requirements for a student to earn a diploma shall be those in effect when the student enters the ninth grade for the first time. The following applies to 9<sup>th</sup> grade students who entered high school in 2000-2001 and beyond.

The Modified Standard Diploma is intended for certain students who have a disability and are unlikely to meet the credit requirements for a Standard Diploma. Eligibility and participation in the Modified Standard Diploma program shall be determined by the student’s Individual Education Program (IEP) team including the student, when appropriate, at any point after the student’s eighth grade year. There are no verified credit requirements for the Modified Standard Diploma. Students pursuing the Modified Standard Diploma are required to meet literacy and numeracy requirements on the 8<sup>th</sup> grade English reading and mathematics Standards of Learning (SOL) tests. Students may substitute a higher level high school SOL test for the 8<sup>th</sup> grade SOL tests for the literacy and numeracy requirements.

A student who has chosen to pursue a Modified Standard Diploma shall also be allowed to pursue the Standard Diploma, Advanced Studies Diploma, or Standard Technical Diploma or Advanced Technical Diploma (based on year of entry into 9<sup>th</sup> grade) at any time throughout the high school career. The student may not be excluded from courses and tests required to earn a Standard, Advanced Studies, Standard Technical, or Advanced Technical Diploma.

<b>Modified Standard Diploma Course Requirements (8 VAC 20-131-50)</b>	
<b>Subject Area</b>	<b>Standard Credits</b>
English	4
Mathematics <sup>1</sup>	3
Science <sup>2</sup>	2
History and Social Sciences <sup>3</sup>	2
Health and Physical Education	2
Fine Arts or Career and Technical Ed.	1
Electives <sup>4</sup>	6
<b>Total Credits</b>	<b>20</b>

<sup>1</sup> Courses 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 of Education.

<sup>2</sup> Courses 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.

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

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

#### **Declaration of Nondiscrimination**

No student, employee, or applicant for employment in the Fairfax County Public Schools shall, on the basis of race, color, sex, religion, national origin, marital status, disability, or age (under certain conditions), be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity. Compliance is coordinated by the directors of the following: Office of Design and Construction Services (571-423-2280) regarding access to facilities; Office of Equity and Compliance (571-423-3050 or dial 711 for access to Telecommunications Relay Services (TRS)), regarding equal employment opportunity, discrimination, and sexual harassment issues; Due Process and Eligibility (703-317-3000), Department of Special Services, regarding programs and activities for students with disabilities. Correspondence may be addressed to the above offices and sent to 8115 Gatehouse Road, Falls Church, Virginia 22042.

**GRADUATION REQUIREMENTS FOR STUDENTS ENTERING 9<sup>TH</sup> GRADE FOR THE FIRST TIME IN 2011-12 SCHOOL YEAR AND BEYOND.**

**STANDARD DIPLOMA**

**22 CREDIT DIPLOMA REQUIREMENTS FOR GRADUATION**

The requirements for a student to earn a diploma shall be those in effect when the student enters the 9th grade for the first time. The following applies to 9<sup>th</sup> grade students who enter high school in 2011-2012 and beyond.

To graduate from high school, students shall meet the minimum requirements for the Standard Diploma as outlined below, including 22 standard credits, 6 of which must be verified credits. A **standard** credit is earned when a student passes a course. A **verified** credit is earned when a student passes a course and the associated end-of-course SOL test. In some cases, students may utilize substitute tests, certifications, or the appeal process to earn verified credits. State guidelines prescribe the number of verified credits required for graduation for students entering a Virginia public high school for the first time during the tenth grade or after. Consult your school counselor for specific information.

Students receive credit toward graduation for high school courses taken and passed in middle school. These courses count toward credits in the required sequences as well as toward the total number of credits required for graduation and calculation of the grade point average (GPA). **Middle school parents may request that grades for any high school credit-bearing course taken in the middle school be removed from the student's high school transcript, and therefore the student will not earn high school credit for the course. In addition, the student will not be eligible for a verified credit in any course which has been removed from the transcript. The request to remove a course from the transcript must be made in writing to the middle or high school the student will attend the following year, prior to the end of the first nine weeks.**

<b>Standard Diploma Course Requirements (8 VAC 20-131-50)</b>		
<b>Subject Area</b>	<b>Standard Credits</b>	<b>Verified Credits</b>
English	4	2
Mathematics <sup>1</sup>	3	1
Laboratory Science <sup>2,6</sup>	3	1
History and Social Sciences <sup>3,6</sup>	4	1
Health and Physical Education	2	
*World Language, Fine Arts or Career and Technical Ed <sup>7</sup>	2	
Economics & Personal Finance	1	
Electives <sup>4</sup>	3	
Student Selected Test <sup>5</sup>		1
<b>Total Credits</b>	<b>22</b>	<b>6</b>

\*Foreign Language is designated World Language in Fairfax County Public Schools.

<sup>1</sup> Courses completed to satisfy this requirement shall include at least two different course selections from among: Algebra I, Geometry, Algebra II, or other mathematics courses above the level of Algebra II. The Board of Education shall approve additional courses to satisfy this requirement.

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

<sup>3</sup> Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, and World History/Geography I and World History/Geography II. AP World History satisfies the requirement for World History/Geography II.

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

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

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

<sup>7</sup> Pursuant 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.

# STANDARD TECHNICAL DIPLOMA

## 22 CREDIT DIPLOMA REQUIREMENTS FOR GRADUATION

The requirements for a student to earn a diploma shall be those in effect when the student enters the 9th grade for the first time. The following applies to 9<sup>th</sup> grade students who enter high school in 2011-2012 and beyond.

To graduate from high school with a Standard Technical Diploma, students shall meet the minimum requirements as outlined below, including 22 standard credits, 6 of which must be verified credits. A **standard** credit is earned when a student passes a course. A **verified** credit is earned when a student passes a course and the associated end-of-course SOL test. In some cases, students may utilize substitute tests, certifications, or the appeal process to earn verified credits. State guidelines prescribe the number of verified credits required for graduation for students entering a Virginia public high school for the first time during the tenth grade or after. Consult your school counselor for specific information.

Students receive credit toward graduation for high school courses taken and passed in middle school. These courses count toward credits in the required sequences as well as toward the total number of credits required for graduation and calculation of the grade point average (GPA). **Middle school parents may request that grades for any high school credit-bearing course taken in the middle school be removed from the student's high school transcript, and therefore the student will not earn high school credit for the course. In addition, the student will not be eligible for a verified credit in any course which has been removed from the transcript. The request to remove a course from the transcript must be made in writing to the middle or high school the student will attend the following year, prior to the end of the first nine weeks.**

Standard Technical Diploma Course Requirements (8 VAC 20-131-50)		
Subject Area	Standard Credits	Verified Credits
English	4	2
Mathematics <sup>1</sup>	3	1
Laboratory Science <sup>2,5</sup>	3	1
History and Social Sciences <sup>3,5</sup>	4	1
Health and Physical Education	2	
Fine Arts or *World Language	1	
Economics & Personal Finance	1	
Career and Technical Education <sup>4</sup>	4	
Student Selected Test <sup>6</sup>		1
<b>Total Credits</b>	<b>22</b>	<b>6</b>

\*Foreign Language is designated World Language in Fairfax County Public Schools.

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

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

<sup>3</sup> Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, and World History/Geography I and World History/Geography II. AP World History satisfies the requirement for World History/Geography II.

<sup>4</sup> Courses 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.

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

<sup>6</sup> A student may utilize additional tests for earning verified credit in computer science, technology, career and technical education, economics or other areas as prescribed by the Board in 8 VAC 20-131-110.

# ADVANCED STUDIES DIPLOMA

## 26 CREDIT DIPLOMA REQUIREMENTS FOR GRADUATION

The requirements for a student to earn a diploma shall be those in effect when the student enters the 9<sup>th</sup> grade for the first time. The following applies to 9<sup>th</sup> grade students who enter high school in 2011-2012 and beyond.

To graduate from high school with an Advanced Studies Diploma, students shall meet the minimum requirements as outlined below which include 26 credits, 9 of which must be verified credits. Any student who meets the requirements for both the Advanced Studies and the Advanced Technical Diploma may choose between these two diplomas. A **standard** credit is earned when a student passes a course. A **verified** credit is earned when a student passes a course and the associated end-of-course SOL test. In some cases, students may utilize substitute tests or certifications to earn verified credits. State guidelines prescribe the number of verified credits required for graduation for students entering a Virginia public high school for the first time during tenth grade or after. Consult your school counselor for specific information.

Students receive credit toward graduation for high school courses taken and passed in middle school. These courses count toward credits in the required sequences as well as toward the total number of credits required for graduation and calculation of the grade point average (GPA). **Middle school parents may request that grades for any high school credit-bearing course taken in the middle school be removed from the student's high school transcript, and therefore the student will not earn high school credit for the course. In addition, the student will not be eligible for a verified credit in any course which has been removed from the transcript. The request to remove a course from the transcript must be made in writing to the middle or high school the student will attend the following year prior to the end of the first nine weeks.**

Advanced Studies Diploma Course Requirements (8 VAC 20-131-50)		
Subject Area	Standard Credits	Verified Credits
English	4	2
Mathematics <sup>1</sup>	4	2
Laboratory Science <sup>2</sup>	4	2
History and Social Sciences <sup>3</sup>	4	2
*World Language <sup>4</sup>	3	
Health and Physical Education	2	
Fine Arts or Career and Technical Ed	1	
Economics & Personal Finance	1	
Electives	3	
Student Selected Test <sup>5</sup>		1
<b>Total Credits</b>	<b>26</b>	<b>9</b>

\*Foreign Language is designated World Language in Fairfax County Public Schools.

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

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

<sup>3</sup> Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, and World History/Geography I and World History/Geography II. AP World History satisfies the requirement for World History/Geography II.

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

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

# ADVANCED TECHNICAL DIPLOMA

## 26 CREDIT DIPLOMA REQUIREMENTS FOR GRADUATION

The requirements for a student to earn a diploma shall be those in effect when the student enters the 9<sup>th</sup> grade for the first time. The following applies to 9<sup>th</sup> grade students who enter high school in 2011-2012 and beyond.

To graduate from high school with an Advanced Technical Diploma, students shall meet the minimum requirements as outlined below which include 26 credits, 9 of which must be verified credits. Any student who meets the requirements for both the Advanced Studies and the Advanced Technical Diploma may choose between these two diplomas. A **standard** credit is earned when a student passes a course. A **verified** credit is earned when a student passes a course and the associated end-of-course SOL test. In some cases, students may utilize substitute tests or certifications to earn verified credits. State guidelines prescribe the number of verified credits required for graduation for students entering a Virginia public high school for the first time during tenth grade or after. Consult your school counselor for specific information.

Students receive credit toward graduation for high school courses taken and passed in middle school. These courses count toward credits in the required sequences as well as toward the total number of credits required for graduation and calculation of the grade point average (GPA). **Middle school parents may request that grades for any high school credit-bearing course taken in the middle school be removed from the student's high school transcript, and therefore the student will not earn high school credit for the course. In addition, the student will not be eligible for a verified credit in any course which has been removed from the transcript. The request to remove a course from the transcript must be made in writing to the middle or high school the student will attend the following year prior to the end of the first nine weeks.**

<b>Advanced Technical Diploma Course Requirements (8 VAC 20-131-110)</b>		
<b>Subject Area</b>	<b>Standard Credits</b>	<b>Verified Credits</b>
English	4	2
Mathematics <sup>1</sup>	4	2
Laboratory Science <sup>2</sup>	4	2
History and Social Sciences <sup>3</sup>	4	2
*World Language <sup>4</sup>	3	
Health and Physical Education	2	
Economics & Personal Finance	1	
Fine Arts or Career and Technical	1	
Career and Technical Education <sup>5</sup>	3	
Student Selected Test <sup>6</sup>		1
<b>Total</b>	<b>26</b>	<b>9</b>

\*Foreign Language is designated World Language in Fairfax County Public Schools.

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

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

<sup>3</sup> Courses completed to satisfy this requirement shall include U.S. and Virginia History, U.S. and Virginia Government, and World History/Geography I and World History/Geography II. AP World History satisfies the requirement for World History/Geography II.

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

<sup>5</sup> Courses 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.

<sup>6</sup> A student may utilize additional tests for earning verified credit in computer science, technology, career or technical education, economics, or other areas as prescribed by the Board in 8 VAC 20-131-110.

**MODIFIED STANDARD DIPLOMA**  
**20 CREDIT DIPLOMA REQUIREMENT FOR GRADUATION**

The requirements for a student to earn a diploma shall be those in effect when the student enters the ninth grade for the first time. The following applies to 9<sup>th</sup> grade students who entered high school in 2000-2001 and beyond.

The Modified Standard Diploma is intended for certain students who have a disability and are unlikely to meet the credit requirements for a Standard Diploma. Eligibility and participation in the Modified Standard Diploma program shall be determined by the student’s Individual Education Program (IEP) team including the student, when appropriate, at any point after the student’s eighth grade year. There are no verified credit requirements for the Modified Standard Diploma. Students pursuing the Modified Standard Diploma are required to meet literacy and numeracy requirements on the 8<sup>th</sup> grade English reading and mathematics Standards of Learning (SOL) tests. Students may substitute a higher level high school SOL test for the 8<sup>th</sup> grade SOL tests for the literacy and numeracy requirements.

A student who has chosen to pursue a Modified Standard Diploma shall also be allowed to pursue the Standard Diploma, Advanced Studies Diploma, or Standard Technical Diploma or Advanced Technical Diploma (based on year of entry into 9<sup>th</sup> grade) at any time throughout the high school career. The student may not be excluded from courses and tests required to earn a Standard, Advanced Studies, Standard Technical, or Advanced Technical Diploma.

<b>Modified Standard Diploma Course Requirements (8 VAC 20-131-50)</b>	
<b>Subject Area</b>	<b>Standard Credits</b>
English	4
Mathematics <sup>1</sup>	3
Science <sup>2</sup>	2
History and Social Sciences <sup>3</sup>	2
Health and Physical Education	2
Fine Arts or Career and Technical Ed.	1
Electives <sup>4</sup>	6
<b>Total Credits</b>	<b>20</b>

<sup>1</sup> Courses 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 of Education.

<sup>2</sup> Courses 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.

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

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

**Declaration of Nondiscrimination**

No student, employee, or applicant for employment in the Fairfax County Public Schools shall, on the basis of race, color, sex, religion, national origin, marital status, disability, or age (under certain conditions), be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity. Compliance is coordinated by the directors of the following: Office of Design and Construction Services (571-423-2280) regarding access to facilities; Office of Equity and Compliance (571-423-3050 or dial 711 for access to Telecommunications Relay Services (TRS)), regarding equal employment opportunity, discrimination, and sexual harassment issues; Due Process and Eligibility (703-317-3000), Department of Special Services, regarding programs and activities for students with disabilities. Correspondence may be addressed to the above offices and sent to 8115 Gatehouse Road, Falls Church, Virginia 22042.

## STATE DIPLOMA SEALS

1. The **Governor's Seal** shall be awarded to students who complete the requirements for an Advanced Studies or Advanced Technical Diploma with an average grade of "B" or better and successfully complete college-level coursework that will earn the student at least nine transferrable college credits in Advanced Placement (AP), International Baccalaureate (IB), Cambridge, or dual enrollment courses.
2. Students who complete the requirements for a Standard, Standard Technical, Advanced Studies, or Advanced Technical Diploma with an average grade of "A" shall receive a **Board of Education Seal** on the diploma.
3. The **Board of Education's Career and Technical Education Seal** will be awarded to students who earn a Standard, Standard Technical, Advanced Studies, or Advanced Technical Diploma and complete a prescribed sequence of courses in a career and technical education concentration or specialization that they choose and maintain a "B" or better average in those courses OR pass an examination or an occupational competency assessment in a career and technical education concentration or specialization that confers certification or occupational competency credential from a recognized industry, trade or professional association OR acquire a professional license in that career and technical education field from the Commonwealth of Virginia. The Board shall approve all professional licenses and examinations used to satisfy these requirements.
4. The **Board of Education's Seal of Advanced Mathematics and Technology** will be awarded to students who earn a Standard, Standard Technical, Advanced Studies, or Advanced Technical Diploma and (i) satisfy all of the mathematics requirements for the Advanced Studies or Advanced Technical Diploma (four units of credit including Algebra II; two verified units of credit) with a "B" average or better; and (ii) either (a) pass an examination in a career and technical education field that confers certification from a recognized industry, or trade or professional association; (b) acquire a professional license in a career and technical education field from the Commonwealth of Virginia; or (c) pass an examination approved by the Board that confers college-level credit in a technology or computer science area. The Board shall approve all professional licenses and examinations used to satisfy these requirements.
5. The **Board of Education's Seal for Excellence in Civics Education** will be awarded to students who earn a Standard, Standard Technical, Advanced Studies, or Advanced Technical Diploma and: (i) complete Virginia and United States History and Virginia and United States Government courses with a grade of "B" or higher; and, (ii) have good attendance and no disciplinary infractions as determined by local school board policies and, (iii) complete 50 hours of voluntary participation in community service or extracurricular activities. Activities that would satisfy the requirements of clause (iii) of this subdivision include: (a) volunteering for a charitable or religious organization that provides services to the poor, sick or less fortunate; (b) participating in Boy Scouts, Girl Scouts, or similar youth organizations; (c) participating in JROTC; (d) participating in political campaigns or government internships, or Boys State, Girls State, or Model General Assembly; or (e) 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.

(NOTE: As in the past, the Board of Education Seal and the Governor's Seal are not to be be interchanged among diplomas and may only be used when the conditions cited have been met. The seal should be placed in the lower left quarter of the diploma. Students who earn the Board of Education or the Governor's Seal may also earn the Career and Technical Education , the Advanced Mathematics and Technology, or the Civics Education Seals.)

## GRADING SYSTEM

### Effective September 2009

FCPS adopted a new grading scale effective September 2009. Changes in the FCPS grading policy include a modified ten-point grading scale that uses pluses and minuses. An asterisk (\*) is used on the transcript to distinguish B+, C+, and D+ grades earned prior to September 2009.

For example, B\* = B+.

A (93-100) = 4.0	B- (80-82) = 2.7	D+ (67-69) = 1.3
A- (90-92) = 3.7	C+ (77-79) = 2.3	D (64-66) = 1.0
B+ (87-89) = 3.3	C (73-76) = 2.0	F (below 64) = 0.0
B (83-86) = 3.0	C- (70-72) = 1.7	

### Grading System Prior to September 2009

A (94-100) = 4.0	C (74-79) = 2.0
B+ (90-93) = 3.5	D+ (70-73) = 1.5
B (84-89) = 3.0	D (64-69) = 1.0
C+ (80-83) = 2.5	F (below 64) = 0.0

## GRADE POINT AVERAGE

Grade point average (GPA) is calculated on the basis of **all courses for which high school credit has been earned or attempted, including repeated courses previously passed.** In order for a repeat course to raise a GPA, the student's grade must be higher than the one originally given. All classes appearing on the high school transcript including high school classes taken in summer school, middle school, elementary school, or online are included when calculating GPA.

Advanced Placement (AP) courses and specified International Baccalaureate (IB) courses receive an additional 1.0 added to the final grade upon successful completion of the course. Successful completion is defined as completing the course with a passing grade and completing the corresponding AP or IB exam. For example, a final grade of A in an AP/IB course shall receive 5.0 quality points for purposes of calculating grade point average.

Honors courses in mathematics, science, English, social studies, and designated Thomas Jefferson High School courses, receive an additional 0.5 weight added to the final grade upon successful completion of the course. Successful completion is defined as completing the course with a passing grade. For example, a final grade of A in an honors class shall receive 4.5 quality points. In these disciplines, students have a choice of taking either a non-weighted standard level course or the weighted honors level course.

Courses dropped will not be counted in grade point average (GPA) except when a final grade of F is received: (a) for the fourth grading period of a full-year course, or (b) for the second grading period of a semester course. A student's GPA is determined by dividing the total number of quality points earned by the number of courses included in the transcript. The grade point average is reported to three decimal places (thousandths). Fairfax County Public Schools does not rank its students.

## WITHDRAWAL POLICY

If a student drops a course during the:

1st quarter	No penalty--nothing is recorded.
2nd quarter	WP (withdrawn passing) or WF (withdrawn failing) is recorded. Exception: For semester courses a WP or F for failure is recorded.*
3rd quarter	WP or WF is recorded.
4th quarter	WP or F for failure is recorded.*

\* Unless the principal approves an exception, a student may not withdraw during the final quarter if the student is passing the course.

## PASS-FAIL

The Fairfax County School Board policy permits students to take certain courses on a pass-fail basis.

- With parental or guardian approval, any high school student shall be given the option of taking one elective credit per school year to be marked on a pass-fail basis. This may be applied to required health and physical education credits, world language credits, and to credits other than those required for English, social studies, mathematics, and laboratory science and specialized courses such as Principles of Engineering Technology and Senior Technology Research taught at Thomas Jefferson High School for Science and Technology.
- A double or triple-period class taken for two or three credits in the technical fields may be taken on a pass-fail basis as the one pass-fail course per year.
- No student may take more than two-single semester electives or one full-year elective per school year on the pass-fail system except as indicated above.
- Any high school student wishing to take a course as pass-fail shall indicate this by completing a "Pass-Fail Status Request Form" requiring parent approval and returning it to designated school personnel on or before the 22nd school day or by the first half of the first grading period subsequent to entering the course. Students in schools using a semester block schedule must return the parent approval form to the designated school personnel on or before the 11th school day or by the first half of the first grading period subsequent to entering the course. This decision may not be reversed.
- If a student drops a class being taken on a pass-fail basis and transfers to a new class, the student shall have 10 school days to make a decision as to whether the new class will be taken on a pass-fail basis. Students in schools using a semester block schedule shall have 5 school days to make a decision as to whether the new class will be taken on a pass-fail basis, provided it is an elective course. This decision may not be reversed.
- Grades are determined as follows:
  - "P" for an A, A-, B+, B, B-, C+, C, C-, D+, D which will receive credit but will not count in grade-point average.
  - "F" for an F which will receive no credit but will be counted in grade-point average.

## PROMOTION POLICY

### Middle School

To qualify for promotion, seventh and eighth grade middle school students must demonstrate knowledge and competency based upon identified standards of achievement in the four core areas of language arts, mathematics, science, and social studies. To guarantee promotion, students must demonstrate proficiency in the foundational knowledge and skills in each of the four core subject areas and earn a passing final grade based on grade level expectations.

Students who earn an "F" as a final grade in one or two core subjects are retained, at the discretion of the principal, and encouraged to

participate in an intervention program. Based upon the extent to which a student demonstrates knowledge and competency of identified standards of achievement in an intervention program, he/she is promoted or retained. Students who are promoted may receive continued intervention throughout the following school year. If students do not participate in an intervention program, they are retained at the discretion of the principal.

Students who earn an "F" in three or four core courses are retained, at the discretion of the principal.

### High School

The minimum requirements for placement in high school grades are as follows:

To be placed in grade:	The student must:
9	Be promoted from 8th grade
10	Earn 5 credits
11	Earn 10 credits
12	Have a planned program providing for sufficient credits to qualify for graduation the following June or August

## WORLD LANGUAGES PROFICIENCY CREDIT

The Credit Exam for World Languages is given each fall to students who wish to demonstrate written proficiency in one of several languages: Amharic, Arabic, Bengali, Chinese, Farsi, French, German, Hindi, Japanese, Korean, Punjabi, Russian, Somali, Spanish, Tagalog/Pilipino, Telugu, Twi, Urdu, or Vietnamese. Students who are successful on the exam receive two world languages credits which may be used to fulfill the world languages requirements/electives of the Advanced Studies, Advanced Technical, Standard Technical or Standard Diplomas. In addition, middle school students in grades 6-8 enrolled in ESOL 5720-5730 courses may receive up to two world languages credits towards high school graduation requirements in the two-plus-two option for fulfilling the world languages requirement. High school students enrolled in ESOL 5720 courses may receive elective or up to two world languages credits toward high school graduation requirements in the two-plus-two option for fulfilling the world languages requirement. For more information on the exam, go to: [www.fcps.edu/DIS/OHSICS/forlang/creditemax/index.htm](http://www.fcps.edu/DIS/OHSICS/forlang/creditemax/index.htm) or contact the World Languages Team at 571-423-4602.

## POSTSECONDARY PLANNING

Each high school in Fairfax County Public Schools provides a sequential postsecondary planning program that focuses on the acquisition of knowledge, skills, and self-understanding necessary to achieve postsecondary goals. Students are counseled regarding opportunities for postsecondary education, financial aid and employment prior to high school graduation. The program includes career planning that assists students in developing good decision-making skills, an understanding of their interests and abilities, and knowledge of the wide range of career opportunities. To assist in the process, information and resources are provided at your school and are available online. Additionally, each high school has a staffed Career Center with current college and career resource materials.

## ADVANCED ACADEMIC PROGRAMS

Advanced Academic Programs at the high school level are comprised of honors courses at the 9<sup>th</sup> and 10<sup>th</sup> grade levels, and the Advanced Placement (AP) or International Baccalaureate (IB) programs at the 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grade levels. Advanced Academic Programs are open to all students committed to rigorous academic work. Student transfer applications may be submitted for an AP or IB program if the base school does not offer the desired program of study. For more information on the program please visit the web site at [www.fcps.edu/dss/osp/StudentRegistration/student-transfer/index.htm](http://www.fcps.edu/dss/osp/StudentRegistration/student-transfer/index.htm).

AP and IB courses are advanced-level courses with external exams. Students who take AP and IB courses are required to complete the examinations. **(For more information, see Grade Point Average.)**

The Advanced Academic program responds to the requirement of the Virginia Board of Education that each local school division plan and implement an instructional program for gifted and talented students at all levels K-12. Courses designated as honors, IB or AP fulfill this requirement.

The Fairfax County Public Schools' high school advanced academic program provides educational opportunities designed and coordinated to meet the needs, abilities, and interests of gifted and talented students. The high school gifted program provides challenging courses for students who demonstrate advanced academic ability.

Differentiated curricula and teaching strategies which stress critical thinking skills, creativity, and problem-solving are integrated into the content of all advanced academic course offerings. The four-year sequence of courses in each of the academic disciplines, which progresses from honors to AP, and IB, provides a continuous and balanced gifted and talented program.

### **Advanced Placement**

Centreville, Chantilly, Fairfax, Falls Church, Hayfield, Herndon, Lake Braddock, Langley, Madison, McLean, Oakton, South County, West Potomac, West Springfield, Westfield, and Woodson High Schools offer the Advanced Placement (AP) program. Individual AP courses are also offered at other high schools. All students enrolled in an AP course are required to complete the end-of-course AP exam. Students may receive college credit and/or placement based upon their exam grades. The AP program is offered in English, social studies, mathematics, science, world languages, and fine arts. AP courses are offered as open enrollment to all students committed to rigorous, academic work. Students taking at least 3 AP exams with at least a grade of 3 on each are recognized by the College Board as AP Scholars. Further information about the AP program may be obtained by contacting the school counselor or AP coordinator at the participating school.

### **International Baccalaureate**

Annandale, Edison, Lee, Marshall, Mount Vernon, Robinson, South Lakes, and Stuart High Schools offer the International Baccalaureate (IB) Diploma. To qualify for the IB Diploma, students must select at least one subject from each of six IB subject groups including English, world languages, mathematics, science, social studies, and an elective. Students take at least 3 and not more than 4 of these subjects at higher level (HL), the others at standard level (SL). All students enrolled in an IB course are required to complete the end-of-course IB exams. IB diploma candidates must complete 150 hours of extracurricular activities and community service, take the Theory of Knowledge course, and write a 4000 word essay on a topic of their choice. Students in IB schools have a choice of being certificate candidates or IB diploma candidates. Certificate candidates take one or more IB courses and the associated exam(s) and receive certificates for each IB exam.

The IB program is offered in English, social studies, mathematics, science, world languages, fine arts, and other electives. IB courses are offered as open enrollment to all students committed to rigorous, academic work. Further information about the IB program may be obtained by contacting the school counselor or IB coordinator at the participating school. Annandale, South Lakes, Mount Vernon, and Stuart High Schools implement the IB Middle Years Program in 9<sup>th</sup>

and 10<sup>th</sup> grade. Students may choose to work toward the MYP certificate which requires the completion of a personal project at the end of 10<sup>th</sup> grade and success on the MYP 10<sup>th</sup> grade assessments.

### **Thomas Jefferson High School For Science And Technology**

The Thomas Jefferson High School for Science and Technology is a unique Fairfax County public school offering a comprehensive college preparatory program emphasizing the sciences, mathematics, and technology. As the Governor's School for Science and Technology in Northern Virginia, the school serves students who are selected in a competitive process and intend to pursue college preparation in the sciences, engineering, or related fields. Students may obtain information about application procedures and deadlines from the School Counseling Office of their local schools or by calling Thomas Jefferson High School for Science and Technology Office of Admissions at 703-658-5823 or at: [www.tjhsst.edu/abouttj/admissions/](http://www.tjhsst.edu/abouttj/admissions/)

## **CAREER AND TECHNICAL EDUCATION**

Course descriptions for Career and Technical Education (CTE) courses can be found under Business and Information Technology, Family and Consumer Sciences, Health and Medical Sciences, Marketing, Technology Education, and Trade and Industrial in sections of the *Standard Course Offerings* guide. School counselors can provide further information on courses available at the following locations: Chantilly, Edison, Fairfax, Falls Church, Marshall, and West Potomac High School Academies, as well as at Tysons Corner Center, Fair Oaks Shopping Center, and Spring Village Residential Construction Site. Please visit the CTE web site at [www.fcps.edu/DIS/OCTE/index.htm](http://www.fcps.edu/DIS/OCTE/index.htm).

Fairfax County Public Schools (FCPS) has established articulation agreements' with the Art Institutes of Miami, Philadelphia, and Washington, The Culinary Institute of America, George Mason University, Johnson & Wales University, Shennandoah University, and Stratford University that allow students to take certain career and technical education classes in high school and receive advanced placement credit. In addition, FCPS has dual enrollment agreements with Northern Virginia Community College (NVCC) whereby students can earn college credits for select career and technical education classes.

## **STUDENT FEES**

Courses that require a student fee for consumable materials have been designated in this catalog. The schedule of divisionwide student fees to be charged for any elective course can be found in Notice 5922 at [www.fcps.edu/Directives](http://www.fcps.edu/Directives). Students eligible for the federal Free and Reduced-Price meals program may have course and test fees waived. For more information, see your school counselor.

## FCPS ONLINE COURSES

FCPS Online Campus is a program designed to provide students with an online option for earning credits toward high school graduation. This program supports the Governor’s “Early College Scholars” program by providing advanced courses to students.

Students registered in any Fairfax County Public School or alternative high school are eligible to apply to take a course through the FCPS Online Campus. These courses are for students who have scheduling conflicts or have special needs requiring web-based instruction. Tuition will be charged when a student is already scheduled to receive seven credits during the academic year or when a student enrolls in an FCPS online summer course. Students must meet all regular eligibility requirements to enroll in an FCPS online course. Students interested in enrolling in an FCPS Online Campus course should consult their school counselor for information regarding the registration process. For more information go to [www.fcps.edu/DIS/onlinecampus](http://www.fcps.edu/DIS/onlinecampus).

The following courses are currently available on line:

Algebra	Biology 1	Advanced Accounting
Algebra 1 Honors	Biology 1 Honors	
Geometry	Chemistry 1	Spanish 1
Geometry Honors	Chemistry 1 Honors	Spanish 2
Algebra 2	Physics 1	Spanish 3
Algebra 2 Honors	Geosystems	AP Spanish Language
Trigonometry	Oceanography	AP Spanish Literature
Precalculus	AP Biology	
AP Calculus AB	AP Chemistry	AP French Language
AP Statistics	AP Physics B	
Creative Writing 1	World History & Geography 1	Physical Education 9
Creative Writing 2	World History & Geography 1 Honors	Physical Education 10
English 9	World History & Geography 2	
English 9 Honors	VA & US History	
English 10	VA/U.S. Government	
English 10 Honors	AP U.S. Government	
English 11	AP Microeconomics	
English 12	AP Macroeconomics	
AP English Language	Psychology	
AP English Literature	AP Psychology	
	AP US History	

## HIGH SCHOOL ACADEMIES

Advanced technical and specialized elective courses are available at Academies located at Chantilly, Edison, Fairfax, Falls Church, Marshall, and West Potomac High Schools for students interested in pursuing careers in International Studies and Business; Engineering and Scientific Technology; Health and Human Services; or Communications and the Arts. Enrollment in the Academy elective course offerings will provide juniors and seniors with career and academic preparation for future learning in college and career fields. Students enrolling in the Academy elective courses will be provided with opportunities to participate in shadowing, mentoring, and/or internships with local businesses. Transportation may be provided to Academy locations. Please check with each respective location for transportation schedules relevant to each high school academy. Refer to course descriptions in the *Standard Course Offerings* for specific information on Academy courses.

### 2011-2012 HIGH SCHOOL ACADEMY COURSE OFFERINGS

#### **CHANTILLY ACADEMY: Engineering and Scientific Technology; Health and Human Services**

<http://www.fcps.edu/ChantillyAcademy/>

Air Force JROTC	Culinary Arts	Geographic Information Systems
Animal Science	Dental Careers	Girls Exploring Engineering (Engineering Sys.)
Automotive Collision Service	Early Childhood Careers	Independent Research – Engineering
Automotive Technology	Engineering Mathematics	Medical Assistant
Carpentry	Engineering Physics	Oracle
Cisco	Engineering Systems	Pharmacy Technician
Computer Systems Technology - A+	Entrepreneurship	Exploring the Language of Medicine
Cosmetology	Exploring Health Sciences	
Criminal Justice		

#### **EDISON ACADEMY: International Studies and Business; Engineering and Scientific Technology**

<http://www.fcps.edu/EdisonAcademy/>

Animal Science	Cosmetology	Hotel Marketing
Automotive Collision Service	Culinary Arts	Landscape Architecture & Turf Management
Automotive Technology	Electrical Construction & Engineering	Network Administration (Microsoft)
Computer Systems Technology - A+	Heating, Ventilation, AC, & Refrigeration	Oracle

#### **FAIRFAX ACADEMY: Communications and the Arts**

<http://www.fcps.edu/FairfaxAcademy/>

Chinese	Korean	Professional Musical Theatre & Actor's Studio
Dance	Music and Computer Technology	Professional Photography Studio
Fashion Design	Professional Graphics Studio	Professional Television Production

#### **FALLS CHURCH ACADEMY: Health and Human Services**

<http://www.fcps.edu/FallsChurchHS/academy/index.html>

Criminal Justice	Exploring the Language of Medicine	Pharmacy Technician
Dental Careers	Fire and Emergency Medical Sciences	Practical Nursing
Exploring Health Sciences	Medical Assistant	

#### **MARSHALL ACADEMY: International Studies and Business; Engineering and Scientific Technology**

<http://www.fcps.edu/MarshallAcademy/>

Aerospace Science	Cosmetology	Engineering Systems
Automotive Collision Service	Criminal Justice	Entrepreneurship
Automotive Technology	Culinary Arts	Hotel Marketing
Chinese	Engineering Physics	Network Administration (Microsoft)
Computer Systems Technology - A+		

#### **WEST POTOMAC ACADEMY: Communications and the Arts; Health and Human Services**

<http://www.fcps.edu/WestPotomacAcademy/>

Criminal Justice	Exploring the Language of Medicine	Pharmacy Technician
Dance	Fashion Design	Physical Therapy/Occupational Therapy
Dental Careers	Medical Assistant	Professional Graphics Studio
Early Childhood Careers	Music and Computer Technology	Professional Television Production
Exploring Health Sciences		

## BUSINESS & INFORMATION TECHNOLOGY

### ACCOUNTING (632000)

Grades: 9, 10, 11, 12

Credit: one

Accounting offers students the opportunity to learn about the financial operations of modern business enterprises and prepares students to make better financial decisions for the future. Students study accounting concepts for sole proprietorships, partnerships, and corporations to understand the fundamental accounting equation, the business transaction analysis process, and the elements of financial reporting. Interpretation of accounting information is mastered through decision-making and problem-solving approaches that include source documents, case studies, and simulations. Technology integration and related accounting software applications are used to enhance skills to analyze and evaluate financial situations. Internet learning activities are used to reinforce research, communication, and team building skills. Course topics include forms of ownership, accounts receivable/accounts payable systems, payroll, taxes, and banking activities. Upon completion of this course, students will be able to complete an accounting cycle from transactions to financial statements. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

### ADVANCED ACCOUNTING (632100)

Grades: 10, 11, 12

Credit: one

Prerequisite: Accounting (632000)

Students continue to master accounting principles and procedures, adding new topics about managerial accounting, cost accounting, financial analysis, and business ethics. Content areas include property, plant and equipment, corporate investments, bonds, notes payable and receivables, amortizations, cash flow statements, and ratio analysis for the corporate structure. Spreadsheet analysis and accounting software applications provide the opportunity for higher-level thinking skill activities and authentic simulations enhance teamwork, decision making, and communication skills. Students also develop an understanding of career opportunities as they complete career exploration activities. Upon completion, students should be able to demonstrate an understanding of the principles of decision making, problem solving and critical thinking, and apply them to both business and personal financial situations. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. This course is also available online.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

### INFORMATION SYSTEMS (661200)

Grades: 9, 10, 11, 12

Credit: one

Prerequisite: Computer Solutions Digital Input Technologies or equivalent skill

This computer-based course teaches students to use technology efficiently and effectively to gather and organize information, and problem-solve tasks. Through a series of software applications and activities, students will establish a strong foundation in keyboarding techniques and proficiency, manage computer systems, produce word processing documents, develop spreadsheets, databases, and multimedia presentations; and, work with telecommunications and networks. Integrating lessons with real-life business applications and cross-curricular learning activities will enable the students to become better prepared for life-long learning and problem solving. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

### ADVANCED INFORMATION SYSTEMS (661300)

Grades: 9, 10, 11, 12

Credit: one

Prerequisite: Information Systems (661200), Computer Solutions (615030, 31, 32), Advanced Computer Solutions (660932) or equivalent skill

Advanced Information Systems provides students with the opportunity to develop professional computer and technology skills in a project-oriented and student-centered

environment. Working independently or in teams, students apply problem-solving, decision-making, creative-thinking, and communication skills to relevant, real-life situations through a series of software and peripheral applications. Instruction in current and emerging information technology includes operating systems, networking and hardware principles, document preparation, presentation tools, spreadsheet analysis and charts preparation, relational database management, technical writing, desktop publishing, copyright issues, and basic web page design. Upon completion of this course, students will be able to apply technology to analyze and solve problems and to complete technology tasks efficiently and effectively. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

### BUSINESS COOPERATIVE INTERNSHIP (679920; 679921)

(Formerly Cooperative Office Education-COE)

Grades: 10, 11, 12

Credit: one or more

Corequisite: Student must be concurrently enrolled in a business course.

Business Cooperative Internship allows students to apply what they have learned in the classroom to the real world. The internship experience combines a business course with the employment in a business-related field that reflects the student's current career interests. The program offers valuable work experience, enhances employment skills, and develops marketable skills. This course, taken in conjunction with another business course, will earn one to two units of credit. Students who successfully complete 396 hours of supervised on-the-job training in a related occupation will earn one credit. Students who successfully complete 720 hours of supervised on-the-job training in a related occupation will earn two credits.

### BUSINESS LAW (613232)

Grades: 9, 10, 11, 12

Credit: one-half

Business Law provides students with the basic knowledge to become a better informed citizen, employee, and consumer. The course offers students the opportunities to study the nature and function of our legal system, courts, and procedures. Topics include contracts, sales agreements, torts, constitutional law, criminal law, and family law. Students focus on consumer rights and responsibilities, examine legal aspects of employment, research careers in law, and discuss the impact of laws on travelers and those living abroad. Enriched with student projects, debates, mock trials, field trips, guest speakers, and Internet activities, the course helps students understand the laws affecting businesses and consumers.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal.**

### BUSINESS MANAGEMENT (613632)

Grades: 9, 10, 11, 12

Credit: one-half

Students study basic management concepts and leadership styles as they explore business ownership, planning, economics, international business, and human relations issues such as employee motivation and conflict resolution. Through engaging software simulations, students learn to utilize efficiently and effectively the basic management functions of planning, organizing, staffing, directing, and controlling, and their impact on human and capital resources. Upon completion of this course, students will develop a business plan for a real or simulated business.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal.**

### DESIGN, MULTIMEDIA, AND WEB TECHNOLOGIES (663000)

Grades: 9, 10, 11, 12

Credit: one

Prerequisite: Information Systems (661200) or equivalent skill

This product-oriented course introduces the student to multimedia presentations, desktop publications, and web page creation. Hands-on activities are used as students develop skills, master techniques, and prepare products for a client-based environment. Students learn to create professional slideshow presentations using animation, sound, and videos. Students also create brochures, flyers, business advertisements, and many other useful documents using Adobe products. The course also introduces students to document construction for publishing on the World Wide Web using authoring software. Units of instruction include design and layout, typeface selection, electronic scanners and scanned images, image editing, digital cameras and images, and video capturing. Internet research and copyright laws are emphasized. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

## ECONOMICS AND PERSONAL FINANCE (612000)

Grades: 9, 10, 11, 12

Credit: one

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 cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

## IB BUSINESS AND MANAGEMENT HL (613509)

Grades: 11, 12

Credit: one/weighted +1.0

Prerequisite: IB Business and Management SL (613508)

This course is the second segment of a two-year series. It will continue and expand the curriculum of the first-year course and will require a written research project. The class is designed to promote the importance of exploring business issues from different cultural perspectives, to encourage a holistic view of the world of business, to enable the student to develop the capacity to think critically, and to enhance the student's ability to make decisions. Through the assessment of data from a variety of sources, students will identify social factors, cultural factors, and ethical considerations in the actions of organizations as well as examine the impact of the actions of organizations on the internal and external environment. For students attending base schools that have the IB program, this course may serve as an elective ("Sixth Subject") in the IB Diploma program or may be taken independently for an IB certificate. These IB students are required to take the IB exam, and the course carries a weighted credit of 1.0 on the student's GPA. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

## IB BUSINESS AND MANAGEMENT SL (613508)

Grades: 10, 11, 12

Credit: one/weighted +1.0

The IB Business and Management SL course is designed to provide a broad introduction to the basic principles and practices of businesses and other organizations, both profit-making and nonprofit in nature. Fundamental principles and skills are studied in local, national and international context, thus affording the opportunity to reflect the differences in perspectives and cultures. Instruction includes units in introduction to business, marketing, finance, accounting, and human resource management. For students attending base schools that have the IB program, this course may serve as an elective ("Sixth Subject") in the IB Diploma program or may be taken independently for an IB certificate. These IB students are required to take the IB exam, and the course carries a weighted credit of 1.0 on the student's GPA. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

## PROGRAMMING (664000)

Grades: 9, 10, 11, 12

Credit: one

Prerequisite: Keyboarding skills and Microsoft Windows knowledge

Students explore computer concepts, apply logic procedures, and implement programming procedures with one or more languages, such as Visual Basic.Net. Graphical User Interfaces may be used as students design and develop interactive multimedia applications. In addition, HTML or JavaScript may be employed to create Web pages. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with**

**another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

## WEB PAGE DEVELOPMENT (663100)

Grades: 9, 10, 11, 12

Credit: one

Prerequisite: Information Systems (661200) or equivalent skill

This course provides students the opportunity to study, develop and design sophisticated web pages in a client-based business environment. Basics of HTML, DHTML, scripting, and the use of authoring software are covered. Students are also provided instruction in preparing and editing Web page images, applying advanced design techniques and features, creating vector animations, and managing web site directory structures. Skill development will be achieved through hands-on activities that help students to design web pages for various audiences and uses. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

## ENGLISH

### ENGLISH 9 (113000)

Grades: 9

Credit: one

Prerequisite: English 8

Students read and analyze a variety of literary and nonfiction texts, exploring the characteristics of different forms and the techniques authors use to achieve their intended purpose. Language study extends students' vocabulary through learning about connotations, denotations, word origins, and structures. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing to varied and frequent writing assignments. Through narrative, expository, and persuasive writings, students build on their understanding of writing as a process of prewriting, drafting, revising, and publishing. In the research process, students find, evaluate, and select appropriate sources to access information to create a research product. They also develop communication skills through listening to and practicing oral presentations. (This is a Standards of Learning aligned course, which is tested in 11th grade.)

### ENGLISH 9 HONORS (113036)

Grades: 9

Credit: one/weighted +.5

Prerequisite: English 8

English 9 Honors deepens and advances the curriculum of English 9. Students read and analyze a variety of literary and nonfiction texts, exploring the characteristics of different forms and the techniques authors use to achieve their intended purpose. Language study extends students' vocabulary through learning about connotations, denotations, word origins, and structures. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing to varied and frequent writing assignments. Through narrative, expository, and persuasive writings, students build on their understanding of writing as a process of prewriting, drafting, revising, and publishing. In the research process, students find, evaluate, and select appropriate sources to access information to create a research product. They also develop communication skills through listening to and practicing oral presentations. (This is a Standards of Learning aligned course, which is tested in 11th grade.)

### ENGLISH 10 (114000)

Grades: 10

Credit: one

Prerequisite: English 9 or Transitional English 9

Students read and analyze a variety of literary and nonfiction texts, comparing and contrasting the techniques authors use in literature of different cultures and eras. Language study continues to extend students' vocabulary through learning about connotations, denotations, word origins, and structures. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing to varied and frequent writing assignments. With an emphasis on expository and analytic writing, students expand their understanding of writing as a process and develop their skills in revising to address a specific audience and purpose. In the research process, students collect, evaluate, organize, and present accurate and valid information to create a research product. They also improve communication and collaboration skills through small and large group discussions and presentations. (This is a Standards of Learning aligned course, which is tested in 11th grade.)

### ENGLISH 10 HONORS (114036)

Grades: 10

Credit: one/weighted +.5

Prerequisite: English 9, or English 9 Honors

English 10 Honors deepens and advances the curriculum of English 10. Students read and analyze a variety of literary and nonfiction texts, comparing and contrasting the

techniques authors use in literature of different cultures and eras. Language study continues to extend students' vocabulary through learning about connotations, denotations, word origins, and structures. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing to varied and frequent writing assignments. With an emphasis on expository and analytic writing, students expand their understanding of writing as a process and develop their skills in revising to address a specific audience and purpose. In the research process, students collect, evaluate, organize, and present accurate and valid information to create a research product. They also improve communication and collaboration skills through small and large group discussions and presentations. (This is a Standards of Learning aligned course, which is tested in 11th grade.)

**ENGLISH 11 (115000)**

**Grades: 11**

**Credit: one**

**Prerequisite: English 10**

Students read and analyze a variety of literary and nonfiction texts, comparing themes of various works and analyzing expository materials to draw conclusions. Language study continues through the application of rules for sentence formation, usage, spelling, and mechanics. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing to varied and frequent writing assignments. With an emphasis on persuasive writing, students apply their skills and adapt content, vocabulary, voice, and tone to a specific audience and purpose. In the research process, students analyze, evaluate, synthesize, and organize information from a variety of sources to produce a research product. They also refine their oral communication skills through gathering and organizing evidence to support a position in informative and persuasive presentations.

**Students are required to take the Standards of Learning End of Course Test.**

**ENGLISH 12 (116000)**

**Grades: 12**

**Credit: one**

**Prerequisite: English 11**

Students read and analyze a variety of literary texts, recognizing major forms and their stylistic elements. Using nonfiction texts, students will analyze and synthesize information to solve problems. Language study expands students' general and specialized vocabulary through speaking, listening, reading, and viewing. Writing will include the production of informational, expository, and persuasive/argumentative papers, logically organized demonstrating knowledgeable judgments, and effective conclusions. They also apply their oral communication skills to craft formal oral presentations and their listening skills to analyze the relationships among purpose, audience and content of presentations.

**ENGLISH 12 Dual Enrollment (1160DE - 01)**

**Grades: 12**

**Credit: one**

**Prerequisite: English 11**

English 12 Dual Enrollment is a rigorous course which allows students to earn college credit while completing English 12 requirements. This year long/two semester course introduces students to critical thinking and the fundamentals of academic writing. Through the writing process, students refine topics; develop and support ideas; investigate, evaluate, and incorporate appropriate resources; edit for effective style and usage; and determine appropriate approaches for a variety of contexts, audiences, and purposes. The course requires students to locate, evaluate, integrate, and document sources. Students develop these competencies through the examination of a range of texts about the human experience. The students are dually enrolled in Mount Vernon High School and Northern Virginia Community College. Successful completion of the course earns the student high school English 12 credit and two semesters of college English at NVCC (English 111 and 112). Students must earn a passing grade in the course at the end of the first semester in order to remain in the class.

There is a fee for this course.

**IB ENGLISH I (115009)**

**Grades: 11**

**Credit: one/weighted +1.0**

This is the first year of a two-year intensive college-level study of language and literature in English. Over these two years students develop their analytical and creative powers of expression, both in oral and written communication. They practice the skills involved in writing and speaking in a variety of styles and situations, using English as a means of effective communication and as a key to the study of other disciplines. Students are introduced not only to major classical works of literature, but also to a range of contemporary writing. They also study different genre, styles, and contexts through the comparative study of works from various cultures. IB English 1 HL together with IB English 2 HL prepares students for the higher level exam.

**Students are required to take the Standards of Learning End of Course Test.**

**IB ENGLISH HL II (116009)**

**Grades: 12**

**Credit: one/weighted +1.0**

This is the second year of a two-year course in which students continue a rigorous study of language and literature in English. They demonstrate an increasing proficiency in creative and analytical thinking skills through reading, writing and speaking. They develop an understanding of the techniques involved in literary study and criticism, and engage in a detailed and critical examination of written works from world literature. Students develop an appreciation for, and lifelong interest in literature and language. Students are required to take the higher level English A1 IB exam.

**JOURNALISM 1 (120000)**

**Grades: 9, 10, 11, 12**

**Credit: one**

Journalism 1 provides students with opportunities for learning the language of journalism and photojournalism, developing communication skills in writing different kinds of articles, understanding news and the process of publication, and becoming more critical readers and viewers of mass media. This course will fulfill the graduation requirement for a credit in fine and practical arts.

**JOURNALISM 2 (121000)**

**Grades: 10, 11, 12**

**Credit: one**

**Prerequisite: Journalism 1**

In Journalism 2 students learn and apply techniques of layout, design and desktop publishing. Students develop a more sophisticated level of journalistic writing and participate in the operation and production of the high school newspaper and/or student produced webpage. This course requires some after school time.

**JOURNALISM 3 (121100)**

**Grades: 11, 12**

**Credit: one**

**Prerequisite: Journalism 2**

In addition to enhancing their skills as reporters, students in Journalism 3 learn the role of editorial leadership, develop a personal sense of professionalism, understand the role of the newspaper in society, and become productive members of the newspaper and/or student produced webpage staff. Students also learn business and circulation management. This course requires some after school time.

**JOURNALISM 4 (121200)**

**Grades: 12**

**Credit: one**

**Prerequisite: Journalism 3**

In Journalism 4 students learn marketable publications skills; develop individual writing, layout, and design styles; and may assume editorial leadership and responsibility for producing a high school newspaper and/or student produced webpage. Journalism 4 students will also take responsibility for being the chief spokesperson for the publication. Students also take responsibility for business and circulation management. This course requires some after school time.

**PHOTOJOURNALISM 1 (121500)**

**Grades: 10, 11, 12**

**Credit: one**

**Prerequisite: Journalism 1 or instructor permission**

In Photojournalism 1, students learn the principles of interviewing, copywriting, photography, layout, and design. Students will use publishing software to create pages for the school's yearbook. This course requires some after-school time.

**PHOTOJOURNALISM 2 (121600)**

**Grades: 11, 12**

**Credit: one**

**Prerequisite: Photojournalism 1 or approval of instructor.**

In Photojournalism 2, students develop their copywriting skills and advance their photography and design skills as they create pages for the school's yearbook. They may become section editors. This course requires some after-school time.

**PHOTOJOURNALISM 3 (121700)**

**Grades: 11, 12**

**Credit: one**

**Prerequisite: Photojournalism 2 or approval of instructor.**

In Photojournalism 3, students refine their copywriting skills and advance their computer and photography skills, develop individual style, and may assume leadership roles as members of the yearbook staff's editorial board. This course requires some after-school time.

**BROADCAST JOURNALISM (122000)**

**Grades: 10, 11, 12**

**Credit: one**

In this course, students will learn and practice the language and processes of broadcast journalism and reporting. They will develop an understanding of the role and responsibilities of broadcast journalists. Students who take this class are expected to participate in the morning news show.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

**CREATIVE WRITING (117100)**

**Grades: 9, 10, 11, 12**

**Credit: one**

This course provides students an opportunity for additional writing instruction beyond the standard English program. Experimentation with many forms of writing is encouraged, with an emphasis on poetry, short stories, plays, and all forms of descriptive writing. Students continue to expand and refine their ability to write through analyzing and evaluating their own writing and that of other students. Students may also participate in the layout, design, and overall production of a high school literary magazine.

**CREATIVE WRITING 2 (117200)**

**Grades: 10, 11, 12**

**Credit: one**

**Prerequisite: Creative Writing**

This course provides students an opportunity for further exploration of creative writing. Students continue to experiment with many forms of writing, with an emphasis on poetry, short stories, plays, and all forms of descriptive writing. Students hone their writing skills by attempting more advanced work while also working collaboratively with other

students on revision and critique. Students may also participate in the layout, design, and overall production of a high school literary magazine.

### **CREATIVE WRITING 3 (117300)**

**Grades: 10, 11, 12**

**Credit: one**

**Prerequisite: Creative Writing 2**

This course provides students an opportunity to study creative writing at an advanced level through a collaborative workshop approach. Students continue to experiment with many forms of writing, with an emphasis on poetry, short stories, plays, and all forms of descriptive writing. Students work independently and through peer critique groups to refine their writing and develop a sense of voice. Students may also participate in the layout, design, and overall production of a high school literary magazine.

### **DEVELOPING LITERACIES (118060)**

**Grades: 9**

**Credit: one**

Developing Literacies provides direct remediation of content area reading skills necessary to understand the content of mathematics, science, social studies, and English. The course focuses on the reading skills necessary for successful completion of the SOL tests given in the four core areas.

### **EXPANDING LITERACIES 1 (151500)**

**Grades: 10, 11**

**Credit: one**

Expanding Literacies provides direct remediation of reading skills and English content necessary to pass the EOC English: Reading/Literature and Research and/or the EOC English: Writing SOL tests, which are given in eleventh grade. Verified credit on both tests is required in order to earn a Standard Diploma. Counts as a sequential elective when taken after Developing Literacies.

### **EXPANDING LITERACIES 2 (151600)**

**Grades: 11, 12**

**Credit: one**

**Prerequisite: Expanding Literacies (course number 151500)**

Expanding Literacies provides direct remediation of reading skills and English content necessary to pass the EOC English: Reading/Literature and Research and/or the EOC English: Writing SOL tests, which are given in the eleventh grade. Verified credit on both tests is required in order to earn a Standard Diploma. This course is for students who are continuing focused remediation in Expanding Literacies for a second year. Counts as a sequential elective when taken after Developing Literacies and/or Expanding Literacies (1515).

## **ENGLISH FOR SPEAKERS OF OTHER LANGUAGES**

### **WORLD CONCEPTS (299660)**

**Grades: 9, 10, 11**

**Credit: one**

This course provides students with background information, key vocabulary, and basic concepts in preparation for taking World History and Geography I. Course content includes map skills and geographic themes. This course may be repeated for credit. World Concepts is an elective and does not satisfy the state Social Studies requirements for graduation.

### **ESOL LEVEL 1 ENTERING (571011)**

**Grades: 9, 10, 11**

**Credit: one**

Students engage in listening, speaking, reading and writing English through an integrated language arts curriculum. They take three periods of ESOL classes: two content-based and one literature-based. Students develop language and literacy skills and basic content vocabulary. Placement is made following assessment by the ESOL entry assessment staff and/or the ESOL teacher. Students enrolled in this course also take 571012 and 571013. Students in this course may also enroll in World Concepts (299660) and/or Concepts Science (462260). This course earns elective credit and may be repeated.

### **ESOL LEVEL 2 BEGINNING (571014)**

**Grades: 9, 10, 11**

**Credit: one**

Students engage in listening, speaking, reading and writing English through an integrated language arts and content curriculum. Emphasis is placed on building background knowledge and developing academic language proficiency. Students take three periods of ESOL classes: two content-based and one literature-based. Placement is made following assessment by the ESOL entry assessment staff and/or the ESOL teacher. Students enrolled in this course also take 571015 and 571016. It is recommended that students in this course also enroll in World History Concepts and Concepts Science. This course earns elective credits and may be repeated for additional elective credits.

### **ESOL LEVEL 2/3 BEGINNING/DEVELOPING (571017)**

**Grades: 9, 10, 11**

**Credit: one**

Students engage in listening, speaking, reading and writing English through an integrated language arts and content curriculum. Emphasis is placed on developing academic language proficiency, improving reading comprehension and increasing writing fluency. Students take three periods of ESOL classes: two content-based and one literature-based. Students enrolled in this course also take 571018 and 571019. Placement is made following assessment by the ESOL entry assessment staff and/or the ESOL teacher. Based on the ESOL department chair's recommendation, students also enroll in World

Concepts (299660) or World History and Geography 1 (235194) and Concepts Science (462260) or Biology (431094). This course earns elective credits and may be repeated for additional elective credits.

### **ESOL LEVEL 3 DEVELOPING (572091)**

**Grades: 9, 10, 11**

**Credit: one**

Students continue to develop listening, speaking, reading, and writing skills. They read more challenging fiction and non-fiction texts to increase academic vocabulary. Emphasis is placed on developing reading, writing, and learning strategies to support academic content classes. Placement in this course is made following assessment by the ESOL teacher and/or ESOL entry assessment staff. Students enrolled in 572091 also take 572092. 572091 is a literature-based class and 572092 is a content-based class which supports academic language development. A total of two credits from 572091 and 572092 may be used as foreign language credits. This course may be repeated for elective credit.

### **ESOL LEVEL 4 EXPANDING (573000)**

**Grades: 9, 10, 11**

**Credit: one**

This course is taken concurrently with Transitional English 9 or English 9. ESOL and English teachers work together to provide a comprehensive program based on the English 9 POS. Students read a variety of literature and relate life situations to literary themes. They continue to develop their reading and writing skills and study the structure of the English language through an integrated language arts curriculum. Students refine their listening and speaking skills through class discussions and oral presentations. Placement in this course is made following assessment by the ESOL teacher and/or the ESOL entry assessment staff. After completing this course, a student may be recommended for exit from the ESOL program. This course may be repeated for elective credit.

### **CONCEPTS SCIENCE (462260)**

**Grades: 9, 10, 11**

**Credit: one**

This course, taught by science or ESOL teachers, is designed for ESOL Level 1 and 2 students. The course provides the students with background information, key vocabulary, and the basic concepts and skills in preparation for taking biology. This course can be offered on a semester basis for a half credit. Concepts Science is an elective and does not satisfy the state science graduation requirements. This course can be repeated for elective credit.

### **ALGEBRA 1 / PART 1 (313100)**

**Grades: 9, 10**

**Credit: one**

**Prerequisite: Middle School Mathematics**

Algebra 1 / Part 1 extends students' understanding of the real number system and its properties through the study of variables, expressions, equations, inequalities, and analysis of data derived from real-world phenomena. Topics include linear equations and inequalities, linear relations and functions, measures of central tendency (mean, median, mode), data analysis and middle school objectives as needed. Algebra 1 / Part 1 includes approximately sixty percent of the Virginia Standards of Learning for Algebra 1. Students who began 9th grade during the 2009-2010 school year or earlier must pass Algebra 1 to receive mathematics graduation credit for Algebra 1 / Part 1. This course will not count towards a mathematics graduation credit for students who start 9th grade during the 2010-2011 school year or later.

### **INDIVIDUALIZED MATH (312190)**

**Grades: 9, 10, 11**

**Credit: one**

The purpose of this course is to provide instruction of elementary mathematics skills to ESOL or special education students who are functioning below the fifth grade level in mathematics. The course is designed to present the foundational skills necessary to enter Algebra 1 using manipulatives, special materials, and adaptive strategies. The course may include number concepts, mental mathematics, estimation, problem solving, operations, measurement, geometry, data analysis, statistics, probability, and fractions. Students may need up to two years to complete the course, but should move to the next course as soon as their mathematics skills warrant. ESOL and special education students must be enrolled in different sections. ESOL sections (312190) will emphasize language objectives in addition to mathematics objectives. For special education students, this course should be reflected in the student's IEP. This course does not meet the mathematics graduation requirements for the Standard or Advanced Studies Diploma. Students earn elective credit. This course may be added to a school program only with the approval of the Office of High School Instruction and K-12 Curriculum Services.

### **INFORMATION SYSTEMS (661290)**

**Grades: 9, 10, 11**

**Credit: one**

Keyboarding instruction will be a component of this course based on student need. This computer-based course teaches students to use technology efficiently and effectively to gather and organize information, and problem-solve tasks. Through a series of software applications and activities, students will establish a strong foundation in keyboarding techniques and proficiency, manage computer systems, produce word processing documents, develop spreadsheets, databases, and multimedia presentations; and, work with telecommunications and networks. Integrating lessons with real-life business applications and cross-curricular learning activities will enable the students to become better prepared for life-long learning and problem solving.

**TRANSITIONAL ENGLISH 9 (113095)****Grades: 9****Credit: one**

This course can be added to a school program only with the approval of the Office of High School Instruction and K-12 Curriculum Services. Transitional English 9 is intended to be taken concurrently with English for Speakers of Other Languages (ESOL) course number 5730. For ESOL students, Transitional English serves as a transition from ESOL to the mainstream English program as the ESOL and English teachers work together to provide support through a cohesive program of study based on the English POS. Students read a variety of literature, exploring the characteristics of different forms and relating life situations to literary themes. Language study includes spelling and vocabulary. Through varied and frequent writing assignments, students build on their understanding of writing as a process of prewriting, drafting, revising, and publishing. They practice oral communication skills in a variety of settings, including small groups, class discussions, and formal presentations. (This is a Standards of Learning aligned course which is tested in 11th grade.)

**FAMILY & CONSUMER SCIENCES****CHILD DEVELOPMENT AND PARENTING (823200)****Grades: 10, 11, 12****Credit: one**

This course is designed to focus on assessing the impact of the parenting role in society; taking responsibility for personal growth within the parenting role; preparing for a healthy, emotional, and physical beginning for parent and child; meeting developmental needs of children and adolescents; building positive parent-child relationships; using positive guidance to promote self-discipline, self-esteem, and socially responsible behavior; obtaining parenting information, support, and assistance; and, planning ways that families and society can share in nurturing children and adolescents. The basic skills of mathematics, science, and communications will be highlighted when appropriate in the content.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma.**

**CULINARY ARTS 1 (827527)****Grades: 11, 12****Credit: two**

This course is dedicated to providing students with a working knowledge of classical culinary techniques. Through lecture, hands-on work and projects, the students will learn the skills needed for a career in the food service industry. Training in sanitation, hot food production, meat identification and fabrication, pantry, breakfast cookery, purchasing, and basic culinary skills is offered. Curriculum also includes culinary mathematics, field trips, and competitive events. For more information, visit the web sites.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.**

**CULINARY ARTS 2 (827627)****Grades: 11, 12****Credit: two****Prerequisite: Culinary Arts 1 (827527)**

This course builds on the skills learned in Culinary Arts 1. Further advanced instruction in table service, baking, pastries, and management techniques is emphasized. Students create a plan for establishing a restaurant that includes menu selection and preparation, facilities design, and management components. During the second semester, selected students may participate in internship activities as an option in cooperation with the local business community. For more information, visit the academy web sites. Students completing Culinary Arts 1 (827527) and Culinary Arts 2 (827627) with a grade of "B" or better may be eligible to articulate credit at Stratford University, Johnson and Wales University, or The Art Institute of Washington.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit. This course requires a student materials fee as listed in FCPS Notice 5922.**

**EARLY CHILDHOOD CAREERS 1 (828527)****Grades: 11, 12****Credit: two**

**(Selected sites have cooperative education experiences for students with the FCPS Head Start Program)**

This course is designed to combine the study of child growth and development with participation in the planning and operation of a preschool laboratory for three- and four-year-olds. Opportunity is provided for students to prepare for careers involving children and for the responsibility of making daily decisions that affect children. Career opportunities that involve working with children are explored, such as social work, education, psychology, child-care, and medicine. Students enrolling in this course may be required to complete an application and/or have approval of the instructor.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will**

**satisfy the sequential elective requirement for the standard or modified standard diploma.**

**EARLY CHILDHOOD CAREERS 2 (828627)****Grades: 11, 12****Credit: two or three****Prerequisite: Early Childhood Careers 1 (828527)**

**(Selected sites have cooperative education experiences for students with the FCPS Head Start Program)**

This course combines one period of classroom instruction with 396 supervised hours of employment for 2 credits or with 720 supervised hours of employment for 3 credits during the school year in occupations related to careers in early childhood care and education. Or, students may enroll in a double-period course with classroom instruction and child development/preschool laboratory experience. Class instruction expands on the skills of Early Childhood Careers 1 and includes development of employment strategies. Individual projects and training plans are required for both cooperative education and school laboratory work experiences. Students enrolling in this course may be required to complete an application and/or have approval of the instructor.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

**FITNESS AND FOOD (822832)****Grades: 9, 10, 11, 12****Credit: one-half**

This course is designed to focus on making choices that promote wellness and good health; analyzing relationships between psychological and social needs, and food choices; choosing foods that promote wellness; obtaining and storing food for self and family; preparing and serving nutritious meals and snacks; selecting and using equipment for food preparation; and, identifying strategies to promote optimal nutrition and wellness of our society. The basic skills of mathematics, science, and communications will be highlighted when appropriate in the content. Students completing Fitness and Food with a "B" or better may be eligible to articulate up to two credits at Stratford University.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

*\$35.00 fee for food labs*

**GOURMET FOODS (824932)****Grades: 10, 11, 12****Credit: one-half**

This course focuses on consumer decisions, food sanitation, food safety, kitchen management, meal management, food preparation, and related careers. Emphasis is placed on the preparation and presentation of foods that meet individual and family needs. The basic skills of mathematics, science, and communications will be highlighted when appropriate in the content. Students completing Gourmet Foods with a "B" or better may be eligible to articulate up to two credits at Stratford University.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

*\$35.00 fee for food labs*

**INTERNATIONAL FOODS AND HOSPITALITY (825832)****Grades: 10, 11, 12****Credit: one-half**

This course allows students to explore international and American regional cuisines and cultures through the planning, preparing, and serving of meals. Specific foods, ingredients, and methods of preparation unique to a variety of cultures will be studied. Cultural, political, economic, and nutrition issues related to international food choices are studied. Students completing International Foods and Hospitality with a "B" or better may be eligible to articulate up to two credits at Stratford University.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

*\$35.00 fee for food labs*

**INTRODUCTION TO INTERIOR AND FASHION DESIGN (825432)****Grades: 9, 10, 11, 12****Credit: one-half**

This course focuses on the principles of design, design types and vocabulary, color theory, psychological and physiological aspects of color, cultural impact on the environment, decision-making skills, utilization of space, and development of artistic skills. In the interior design component--environmental components, lighting, accessories, energy conservation, furnishings, and equipment selection are studied. In the fashion design component--all aspects of clothing, apparel, and textiles are experienced through garment design. Career development and careers related to design are explored. The basic skills of mathematics, science, communications, and the arts will be highlighted when appropriate in the content.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

**LIFE PLANNING (822700)****Grades: 9, 10, 11, 12****Credit: one**

This course is designed to focus on managing resources to achieve personal goals; making informed consumer choices; creating a living environment that supports the well-being of individuals; evaluating types of housing; maintaining a living environment that supports the well-being of self and family; living in a global environment; making decisions related to clothing; maintaining clothing for self and others; planning food choices that meet the health needs of individuals and families; and, preparing and serving nutritious foods. In addition, focus is placed on developing a life-management plan; caring for self and others to ensure wellness; building and maintaining constructive interpersonal relationships; building and maintaining strong, functional families;

developing strategies for lifelong career planning, coordinating personal and career responsibilities; and, establishing a plan for using resources. The basic skills of mathematics, science, and communications will be highlighted when appropriate in the content.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922. \$20.00 fee for food labs**

#### **TEACHER CADET 1 (906200)**

**Grades: 11, 12**

**Credit: one**

The Teacher Cadet course introduces juniors and seniors to a career in teaching and education. The primary elements of the curriculum components are the learner, the school, 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 observe and participate in an internship outside the teacher cadet classroom. The internship may involve the preschool level through 12th grade. Students enrolling in this course should have a GPA of 3.0 or higher, teacher recommendations, and/or approval of the instructor. College credit is available for this class through Shenandoah University.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma.**

#### **TEACHER CADET 2 (907240)**

**Grades: 11, 12**

**Credit: one**

**Prerequisite: Teacher Cadet 1 (906200)**

In this advanced level course, students will continue to pursue their interest of careers in education. The primary focus of the class is the teacher and teaching, reinforcing the skills and knowledge needed to prepare students to become future educators. Students will have the opportunity to gain teaching experience through participation in supervised internships outside the teacher cadet classroom. The internships may involve the preschool level through grade 12. Research will also be conducted on available college programs with education endorsements and possible scholarship opportunities.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma.**

## **FINE ARTS DANCE**

#### **DANCE 1 (931100)**

**Grades: 9, 10, 11, 12**

**Credit: one**

Students will develop skills in basic movement fundamentals, placement and alignment, standard floor positions, and beginning dance technique for selected dance forms (modern, improvisation, jazz, ballet). Students will also develop dance vocabulary, study dance history, gain competence in critiquing skills, learn improvisational skills, and develop further performance skills. Students must meet both the school day and after-school participation requirements to receive credit for the course.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **DANCE 2/MODERN/JAZZ DANCE (931300)**

**Grades: 10, 11, 12**

**Credit: one**

**Prerequisite: Dance 1**

Students will focus on intensive work and proficiency in alignment, selected techniques, flexibility, and strength. Students will broaden knowledge of dance history, anatomy, theory, vocabulary, criticism, and composition. Students will continue to develop choreographic and performance skills including the use of improvisation. Students must meet both the school day and after-school participation requirements to receive credit for the course.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **DANCE 3 (931500)**

**Grades: 11, 12**

**Credit: one**

**Prerequisite: DANCE 2**

Students will focus on more intensive work and proficiency in alignment, selected techniques, flexibility, and strength. Students will continue to broaden knowledge of dance history, anatomy, theory, vocabulary, criticism, and composition. Students will continue to develop choreographic and performance skills including the use of improvisation. Students must meet both the school day and after-school participation requirements to receive credit for the course.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

## **FINE ARTS**

### **MUSIC**

#### **INTERMEDIATE BAND (923315)**

**Level 1**

**Grades: 9, 10, 11, 12**

**Credit: one**

**Prerequisite: successful audition**

Students continue developing as individual musicians and as members of a musical group. Emphasis is placed on the development of intermediate level technical and ensemble skills necessary for performance. After-school rehearsals and performances are required of all students as an integral part of the course. Marching band techniques and performances may be included.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

*Note: Students must own or rent an instrument.*

#### **ADVANCED BAND (923415)**

**Level 1**

**Grades: 9, 10, 11, 12**

**Credit: one**

**Prerequisite: Successful audition**

Students in this course form the representative-performing band for the school. Emphasis is placed on the sequential development of advanced technical skills and on the study of related literature. Based on successful completion of sequential concepts for each level, students will continue as specified in course level. After-school rehearsals and performances are required of all students as a part of the course. Marching band techniques, rehearsals, and performances are included in this course.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

*Note: Students must own or rent their own instrument.*

#### **ORCHESTRA (923715)**

**Grades: 9, 10, 11, 12**

**Credit: one**

Students develop skills as individual musicians and as members of a musical group. Course content includes beginning level technical and ensemble skills necessary for performance. Some performance opportunities are provided. Students must meet both the school day and after-school participation requirements to receive credit for the course.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **INTERMEDIATE ORCHESTRA "Symphony" (923815)**

**Grades: 9, 10, 11, 12**

**Credit: one**

**Prerequisite: Beginning level skills and permission of instructor**

The course offers instruction in the development of intermediate and advanced performing skills, including individual playing and ensemble techniques, and disciplinary skills needed for performance. After-school rehearsals and performances are required of all students as a part of the course.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **ADVANCED ORCHESTRA "Chamber" (923916)**

**Grades: 9, 10, 11, 12**

**Credit: one**

**Prerequisite: Successful audition**

Students in this course form the representative string performing group for the school. Emphasis is placed on the development of technical, ensemble, and disciplinary skills necessary for refined rehearsal and performance both in and out of school. Based on successful completion of sequential concepts for each level, students will continue as specified in course level. After-school rehearsals and performances are required of all students as a part of the course.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **INTERMEDIATE WOMEN'S CHORUS "Metamorphosis" (928516)**

**Grades: 9, 10, 11, 12**

**Credit: one**

**Prerequisite: Beginning level chorus**

Intermediate level women's chorus will provide for the continued study of correct vocal production and development of musicianship through the study of appropriate choral literature. Rehearsals and performances, both in and out of school, are required.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **INTERMEDIATE MEN'S CHORUS "Majestics" (928517)**

**Grades: 9, 10, 11, 12**

**Credit: one**

**Prerequisite: Beginning level chorus**

Intermediate level men's chorus will provide for the continued study of correct vocal production and development of musicianship through the study of appropriate choral literature. Rehearsals and performances, both in and out of school, are required.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

**ADVANCED WOMEN'S CHORUS "Mirage" (928916)****Grades: 9, 10, 11, 12****Credit: one****Prerequisite: Successful audition**

Students are offered advanced choral experiences for women's voices. Emphasis is placed on the development of musicianship and proficiency in ensemble performance.

Course content includes a study of choral literature, vocal techniques, and sight-singing. Based on successful completion of sequential concepts for each level, students will continue as specified in course level. Rehearsals and performances both in and out of school are required.

Students are expected to have a clear understanding and ability to sight sing at an intermediate level before auditioning.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

**VOCAL ENSEMBLE (Madrigals) (928015)****Grades: 9, 10, 11, 12****Credit: one****Prerequisite: Successful audition**

This class is designed to meet specific needs and/or interests. Content includes study of the appropriate ensemble literature, and rehearsal and performance techniques from the various areas of musical composition.

Performances and rehearsals, both in and out of school, may be required. Schools may also require membership in intermediate or advanced choral class.

Students are expected to have a clear understanding and ability to sight sing at an intermediate level or above before auditioning.

Voicing of the group is at the discretion of the instructor.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

**MUSIC SAMPLER (921433-34)****Level 1****Grades: 9, 10, 11, 12 Credit: one-half**

Students are provided the opportunity to sample a variety of musical experiences in a non-performing music class. Course content includes beginning guitar and class piano experience, as well as various modules designed to assist students in developing music reading and composing skills. Selected composers and musical compositions will be studied as a part of this course.

**This course requires a student materials fee as listed in FCPS Notice 5922**

**MUSIC THEORY (922500)****Grades: 9, 10, 11, 12 Credit: one****Prerequisite: Recommendation of the instructor**

Emphasis is placed on developing and understanding basic music theory skills. Course content includes recognizing and notating: all major and minor scales, rhythms in simple and compound meters, and triadic chord structures. Composition skills in standard notation of simple melodies, with accompanying chords and keyboard performance of simple tunes, may also be included. Students will become acquainted with appropriate musical terms.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

**IB MUSIC I (922508)****Standard Level Year 1****Grades: 11****Credit: one/weighted +1.0**

**Prerequisite: Students will audition for higher level ensembles within the music department if appropriate; recommendation of previous music teacher; completion of announced summer assignment.**

**Corequisite: Advanced level performance ensemble**

Students engage in advanced study of musical performance. An in-depth study of the historical perspective of music including Western society and other world societies is included. Students study cultures and traditions of various regions of the world and gain an insight into the political, social, and economic conditions that impact composers and performers. The study of traditional music in western society focuses on broad periods of time in history and includes specific style, form, and structure of vocal and instrumental music with analyses of specific works from those periods. This course also provides a solid foundation in the fundamentals of music including: intervals, pitch and rhythmic patterns, chords and chord progressions, and musical terms applicable to listening to and performance of musical literature. It is recommended for a student to be a member of an advanced level performance ensemble to participate in the course if the ensemble instrumentation is appropriate, as performance is a required component of the IB assessments. Students are required to take the standard level exam at the end of year 2.

**IB MUSIC SL II (922608)****Standard Level year 2****Grades: 12 Credit: one/weighted +1.0**

**Prerequisite: Students will audition for higher level ensembles within the music department if appropriate; recommendation of previous music teacher; completion of announced summer assignment.**

**Corequisite: Enrollment in an advanced level performance ensemble course**

Students engage in advanced study of musical performance. An in-depth study of the historical perspective of music including Western society and other world societies is included. Students study cultures and traditions of various regions of the world and gain an insight into the political, social, and economic conditions that impact composers and performers. The study of traditional music in western society focuses on broad periods of time in history and includes specific style, form, and structure of vocal and instrumental music with analyses of specific works from those periods. This course also provides a solid foundation in the fundamentals of music including: intervals, pitch and rhythmic patterns, chords and chord progressions, and musical terms applicable to listening to and

performance of musical literature. Students are required to be a member of an advanced level performance ensemble to participate in the course if the ensemble instrumentation is appropriate. Students are required to take the standard level exam at the end of year 2.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

*Recommended: Successful completion of Music Theory*

**IB MUSIC HL (922509)****Higher Level Year 1****Grades: 11 Credit: one/weighted +1.0**

**Prerequisite: Students will audition for higher level ensembles within the music department if appropriate; recommendation of previous music teacher; completion of announced summer assignment.**

**Corequisite: Enrollment in advanced level performance ensemble course**

Students engage in advanced study of musical performance. An in-depth study of the historical perspective of music including Western society and other world societies is included. Students study cultures and traditions of various regions of the world and gain an insight into the political, social, and economic conditions that impact composers and performers. The study of traditional music in western society focuses on broad periods of time in history and includes specific style, form, and structure of vocal and instrumental music with analyses of specific works from those periods. This course also provides a solid foundation in the fundamentals of music including: intervals, pitch and rhythmic patterns, chords and chord progressions, and musical terms applicable to listening to and performance of musical literature. Students are required to be a member of an advanced level performance ensemble to participate in the course if the ensemble instrumentation is appropriate. Students are required to take the higher level exam at the end of year 2.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

**IB MUSIC HL II (922609)****Higher Level year 2****Grades: 12 Credit: one/weighted +1.0**

**Prerequisite: Students will audition for higher level ensembles within the music department if appropriate; recommendation of previous music teacher; completion of announced summer assignment.**

**Corequisite: Enrollment in an advanced level performance ensemble course**

Students engage in advanced study of musical performance. An in-depth study of the historical perspective of music including Western society and other world societies is included. Students study cultures and traditions of various regions of the world and gain an insight into the political, social, and economic conditions that impact composers and performers. The study of traditional music in western society focuses on broad periods of time in history and includes specific style, form, and structure of vocal and instrumental music with analyses of specific works from those periods. This course also provides a solid foundation in the fundamentals of music including: intervals, pitch and rhythmic patterns, chords and chord progressions, and musical terms applicable to listening to and performance of musical literature. Students are required to be a member of an advanced level performance ensemble to participate in the course if the ensemble instrumentation is appropriate. Students are required to take the higher level exam at the end of year 2.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

**GITAR 1 (924515)****Grades: 9, 10, 11, 12****Credit: one****Prerequisite: none**

Students learn the fundamentals of guitar. Guitar instruction emphasizes basic technique, reading, progressions, and music theory. Instructional literature is selected from classical and contemporary repertoire. Guest artists and field trips to performances and/or seminars may also be part of the curriculum.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

*Student must rent or own a guitar*

**GITAR 2 (924516)****Grades: 9, 10, 11, 12****Credit: one**

**Prerequisite: Successful audition or successful completion of Guitar 1 or permission of the instructor**

Students continue to develop skills on the guitar. Guitar instruction emphasizes intermediate technique, reading, progressions, and music theory. Instructional literature is selected from classical and contemporary repertoire. Guest artists and field trips to performances and/or seminars may also be part of the curriculum.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

*Prerequisite: Guitar 1 or successful audition*

**GITAR 3 (924517)****Grades: 9, 10, 11, 12****Credit: one**

**Prerequisite: Successful audition or successful completion of Guitar 2 or permission of the instructor**

Students continue to develop skills on the guitar. Guitar instruction emphasizes advanced technique, reading, progressions, and music theory. Instructional literature is selected from classical and contemporary repertoire. Guest artists and field trips to performances and/or seminars may also be part of the curriculum.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

## FINE ARTS THEATRE ARTS

### THEATRE ARTS 1 (141000)

Grades: 9, 10, 11, 12

Credit: one

Theatre Arts 1 provides students with a survey of the theatre arts, allowing students opportunities to experience and appreciate dramatic literature, and participate in the creative processes of performance and production. The course emphasizes skill development and provides theatrical opportunities that enable students to determine personal areas of interest. Participation in co-curricular theatre productions may be arranged.

This course requires a student materials fee as listed in FCPS Notice 5922.

### THEATRE ARTS 2 (142000)

Grades: 10, 11, 12

Credit: one

Prerequisite: Theatre Arts 1 and/or recommendation of the theatre arts instructor.

Theatre Arts 2 integrates and builds upon concepts and skills from Theatre Arts 1. Through various modes of expression and performance, students investigate dramatic literature, theatrical styles, and historical periods. Students will study and respond to a variety of theatre experiences that will refine their communicative, collaborative, analytical, interpretive, and problem solving skills. Students will expand their artistic abilities and appreciation of the theatrical arts. Students must meet both the school day and after-school participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

### THEATRE ARTS 3 (143000)

Develop Independent Skills in Theatre

Grades: 11, 12

Credit: one

Prerequisite: Theatre Arts 2 and/or recommendation of the theatre arts instructor.

Students exhibit independence, discipline, and commitment to the theatre process through their work on assigned projects. Advanced work in acting skills and preparation, play analysis, and character interpretation are expected. Collaboration with actors and directors is augmented by special assignments and opportunities. Students must meet both the school day and after-school participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

### THEATRE ARTS 4 (144000)

Grades: 12

Credit: one

Prerequisite: Theatre Arts 3 and/or recommendation of the theatre arts instructor.

Students identify areas of special interest in theatre arts, and initiate and complete major research and/or creative projects, such as playwriting, producing, directing, designing, and stage-managing. Emphasis is placed on in-depth study and completion of projects, assumption of leadership roles, and expansion of criteria for self-evaluation. Students will analyze and evaluate scripts, concentrate on vocal and physical dramatics, and undertake a special theatre project in their area of specialization. Students are expected to assume leadership positions in co-curricular theatre productions. Participation in major projects related to the co-curricular theatre productions may be required. Students must meet both the school day and after-school participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

### TECHNICAL THEATRE 1 (143511)

Grades: 9, 10, 11, 12

Credit: one

Prerequisite: Theatre Arts 1 and/or recommendation of theatre arts instructor.

Students explore various areas of technical theatre such as lighting, costumes, sound, scenery, makeup, properties, and theatre management. An analysis of dramatic literature leads students to an understanding of the design and production process. Participation in co-curricular productions is strongly encouraged.

This course requires a student materials fee as listed in FCPS Notice 5922.

### TECHNICAL THEATRE 2 (143512)

Grades: 10, 11, 12

Credit: one

Prerequisite: Technical Theatre 1 and/or recommendation of theatre arts instructor

Students apply technical theatre knowledge and skills by participating in a variety of theatre lab activities and practical projects. Emphasis is on script interpretation and execution of the design concept. Students will collaborate to effectively and safely create functional scenery, properties, lighting, sound, costumes and makeup, and to develop stage management, business and public relations skills. Students must meet both the school day and after-school participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

### TECHNICAL THEATRE 3 (143513)

Grades: 11, 12

Credit: one

Prerequisite: Technical Theatre 2 or recommendation of the instructor

Students exhibit independence, discipline, and commitment to the theatre process through their work on assigned projects. Advanced work in technical elements of production is augmented by special assignments and opportunities. Students must meet both the school day and after-school participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

### TECHNICAL THEATRE 4 (143514)

Grades: 12

Credit: one

Prerequisite: Technical Theatre 3 or permission of the instructor

Students will identify areas of special interest in technical theatre and initiate and complete major research or creative projects in play production. Emphasis is placed on in-depth study and completion of projects, assumptions of leadership roles, and expansion of criteria for self-evaluation. Students must meet both the school day and after-school participation requirements to receive credit for the course.

This course requires a student materials fee as listed in FCPS Notice 5922.

### IB THEATRE ARTS (143009)

Year 1

Grades: 11

Credit: one/weighted +1.0

Prerequisite: Theatre Arts 1 and 2 strongly recommended or by permission of instructor

Students engage in an in-depth study of the nature, theories, and processes of theatre and theatrical production through both practical and theoretical applications of the art form. Concurrently, students involve their senses, bodies and emotions to understand the forms theatre takes in cultures other than their own. Students will develop a portfolio including a journal and visual materials that catalog the development of the student's performance skills and production contributions. Students develop a high degree of aptitude in acting, directing, playwriting, or design. Summer assignment may be required. Students are required to take the higher level exam at the end of year 2.

This course requires a student materials fee as listed in FCPS Notice 5922.

### IB THEATRE ARTS SL II (144008)

Standard level year 2

Grades: 11, 12

Credit: one/weighted +1.0

Prerequisite: IB Theatre Arts year one

Students expand upon an in-depth study of the nature, theories and processes of theatre and theatrical production through both practical and theoretical applications of the art form. Concurrently, students involve their senses, bodies and emotions to understand the forms theatre takes in cultures other than their own. Students complete a critical evaluation of an external production that becomes part of their 3000 word portfolio. Students develop a high degree of aptitude in acting, directing, playwriting, or design. Summer assignment may be required. Students are required to take the standard level exam at the end of this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

### IB THEATRE ARTS HL II (144009)

Higher Level year 2

Grades: 12

Credit: one/weighted +1.0

Prerequisite: IB Theatre Arts Higher Level year one

Students expand upon an in-depth study of the nature, theories and processes of theatre and theatrical production through both practical and theoretical applications of the art form. Concurrently, students involve their senses, bodies and emotions to understand the forms theatre takes in cultures other than their own. Students complete a critical evaluation of an external production plus an Individual Study consisting of a self-designed project that becomes part of their 4500 word portfolio. Students develop a high degree of aptitude in acting, directing, playwriting, or design. Summer assignment may be required. Students are required to take the higher level exam at the end of this course.

This course requires a student materials fee as listed in FCPS Notice 5922.

## FINE ARTS VISUAL ARTS

### STUDIO ART & DESIGN 1 (912000)

Grades: 9, 10, 11, 12

Credit: one

Be introduced to a variety of exciting opportunities in using artistic processes, learn to think conceptually and realize potential as a creative and critical thinker in order to meet the challenges of 21st century living. Explore personal interests while developing skills in the areas of drawing, painting, printmaking, ceramics, sculpture, and digital media. Course content includes art production, art appreciation, and studies in visual culture.

This course requires a student materials fee as listed in FCPS Notice 5922.

### STUDIO ART & DESIGN 2 (913000)

Grades: 10, 11, 12

Credit: one

Prerequisite: ART 1

Cultivate previously developed artistic knowledge and skills learned in Art 1. Explore new combinations and possibilities in the use of two-dimensional and three-dimensional media including technological applications. Investigate contemporary topics as they relate to artistic expression and design. Ask questions, solve problems, create products, and communicate ideas in innovative ways. Course content includes art production, design thinking, art history and criticism, aesthetics, and studies in visual culture.

This course requires a student materials fee as listed in FCPS Notice 5922.

**STUDIO ART & DESIGN 3 (914000)****Grades: 11, 12****Credit: one****Prerequisite: ART 2**

Expand and improve artistic understandings and skills by using creative processes. Develop an individual style and voice to communicate ideas. Articulate responses to personal and global issues through the integration of traditional and electronic media. Present artworks in diverse formats. Course content includes art production, design application, art history, criticism, aesthetics, and studies in visual culture.

**This course requires a student materials fee as listed in FCPS Notice 5922.****STUDIO ART & DESIGN 4: PORTFOLIO PREPARATION GENERAL (914700)****Grades: 12****Credit: one****Prerequisite: ART 3**

Engage in advanced study of art production, art history, aesthetics, and art criticism while maintaining the attitude and self-discipline of a working artist. Practice and exhibit technical proficiency and personal style, work in advanced media, and apply professional presentation techniques to develop and prepare artwork for exhibitions and portfolios. Demonstrate quality, concentration, and breadth of experience in a body of work and select work for personal exhibitions, exit portfolios, and presentation portfolios.

**This course requires a student materials fee as listed in FCPS Notice 5922.****COMPUTER GRAPHICS 1 (918011)****Grades: 9, 10, 11, 12****Credit: one**

Think creatively and solve visual problems to create personally expressive artworks using technology. Develop expertise in the use of computers, scanners, and digital cameras for artmaking. Use Adobe Photoshop, Adobe Illustrator, Bryce 3-D, and Adobe Flash in the areas of motion graphics/animation, graphic design, and digital imaging. Learn to address ethical issues concerning computer generated imagery. No prior computer experience is required.

**This course requires a student materials fee as listed in FCPS Notice 5922.****COMPUTER GRAPHICS 2 (918111)****Grades: 10, 11, 12****Credit: one****Prerequisite: COMPUTER GRAPHICS 1**

Expand knowledge in the application of computer hardware and software to create personally expressive art. Solve complex visual problems within the areas of multimedia presentations, motion graphics/animation, graphic design, and digital imaging using Adobe Photoshop, Adobe Illustrator and Adobe Flash. Prepare a final required portfolio for evaluation.

**This course requires a student materials fee as listed in FCPS Notice 5922.****COMPUTER GRAPHICS 3 (918211)****Grades: 11, 12****Credit: one****Prerequisite: COMPUTER GRAPHICS 2**

Expand knowledge and ability in the application of hardware and software to create personally expressive original art. Create visual solutions using a variety of media, including motion graphics/animation, graphic design, game development, web design and print design. A final portfolio or demo reel is required for evaluation.

**This course requires a student materials fee as listed in FCPS Notice 5922.****COMPUTER GRAPHICS 4: PORTFOLIO PREPARATION (919911)****Grades: 12****Credit: one****Prerequisite: Computer Graphics 3**

Engage in advanced study and application of computer graphics while developing the attitude and self-discipline of a working artist. Integrate advanced knowledge of software with creative thinking skills to produce a portfolio of artworks that shows evidence of expressive content, quality, concentration, and breadth of experience.

**This course requires a student materials fee as listed in FCPS Notice 5922.****ANIMATION (918100)****Grades: 10, 11, 12****Credit: one****Prerequisite: COMPUTER GRAPHICS 1**

Learn to use 2-D and 3-D computer software to create animation. Create personally expressive animations and communicate visually in effective ways through the use of modeling, story and character development, and lifelike motion. Become familiar with animation related careers such as game design, animation, film and television special effects.

**This course requires a student materials fee as listed in FCPS Notice 5922.****PHOTOGRAPHY 1 (919311)****Grades: 10, 11, 12****Credit: one**

Explore and practice standard black and white photographic processes through the use of cameras, films, light effects, and application of basic darkroom techniques. Be introduced to digital photographic processes. Produce meaningful photographs that express ideas about experiences and observations of the world. Study the history of photography and the work of well known photographers to inform artmaking. Develop a beginning portfolio.

**This course requires a student materials fee as listed in FCPS Notice 5922.****PHOTOGRAPHY 2 (919411)****Grades: 10, 11, 12****Credit: one****Prerequisite: PHOTOGRAPHY 1**

Expand on the study of black and white photography and digital processes. Acquire and apply in-depth knowledge of photographic equipment, films, and specialized processes to include digital applications. Investigate leading exponents, equipment, and techniques from an historical perspective. Learn to critique, and evaluate personal artwork and photographic works of others. Examine photography and its relationship to other art forms. Prepare a portfolio of meaningful artworks that demonstrate expressive content and quality of craftsmanship.

**This course requires a student materials fee as listed in FCPS Notice 5922.****PHOTOGRAPHY 3 (919511)****Grades: 11, 12****Credit: one****Prerequisite: PHOTOGRAPHY 2**

Develop a thematic path that integrates an in-depth exploration of film and digital processes. Explore various career paths in photography such as Photo Journalism, Commercial and Fine Art Photography. Apply professional exhibition techniques to present own work. Develop a quality portfolio that effectively illustrates a personal voice.

**This course requires a student materials fee as listed in FCPS Notice 5922.****PHOTOGRAPHY 4: PORTFOLIO PREPARATION (919914)****Grades: 12****Credit: one****Prerequisite: PHOTOGRAPHY 3**

Engage in advanced study of photographic processes. Practice the attitude and self-discipline of a working artist. Prepare a final required portfolio evidencing technical proficiency, quality, concentration, and breadth of experience. Apply professional exhibition techniques to exhibit personal work and the work of others. Meet expectations by demonstrating initiative and commitment to communication of ideas through the use of the photographic medium.

**This course requires a student materials fee as listed in FCPS Notice 5922.****CERAMICS 1 (917560)****Grades: 9, 10, 11, 12****Credit: one**

Practice and apply three-dimensional design and ceramic techniques. Explore a variety of materials and approaches to create functional and decorative ceramic objects. Think creatively and critically to meet challenges and solve problems in innovate ways. Study the history of ceramics and leading contemporary ceramic artists to inform artmaking. Compile and maintain a required ceramic art portfolio.

**This course requires a student materials fee as listed in FCPS Notice 5922.****CERAMICS 2 (917660)****Grades: 10, 11, 12****Credit: one****Prerequisite: Ceramics 1**

Engage in advanced study of ceramics to acquire and apply in-depth knowledge of ceramic processes. Explore form and material to sharpen techniques and to create original ceramic objects. Study historical and cultural styles and leading practitioners to inform artmaking. Improve understanding and production through critique and evaluation processes. Use professional exhibition techniques to arrange a comprehensive display of personal work and the work of others. Compile a culminating ceramic art portfolio evidencing expressive content, quality, concentration, and breadth of experience.

**This course requires a student materials fee as listed in FCPS Notice 5922.****JEWELRY (3-D STUDIO ART) (919765 & 919766)****Grades: 9, 10, 11, 12****Credit: one**

Practice and apply three-dimensional design techniques to jewelry making. Explore a variety of materials and approaches to create exciting jewelry. Think creatively and critically to meet challenges and solve problems in innovate ways. Study the history of jewelry making and leading contemporary artisans to inform personal development of the craft. Compile and maintain a required jewelry making portfolio.

**This course requires a student materials fee as listed in FCPS Notice 5922.****IB VISUAL ARTS I (914908)****Standard Level year 1****Grades: 11 Credit: one/weighted +1.0****Prerequisite: ART 1 and ART 2 or permission of instructor**

Students engage in advanced study of art processes, aesthetic issues, art criticism, and art history and culture while maintaining the self-discipline of the working artist. They exhibit technical proficiency and personal style while working in advanced media, and arrange an art show of their own work using professional exhibiting techniques. A culminating portfolio evidencing quality, a thematic series, breadth of work, progress over time, and highest level of achievement will be required. An investigation workbook which evidences critical research in an area agreed upon by the teacher and the student is required. Students are required to take the standard level exam at the end of year 2. Standard level students must complete the IB Visual Arts I requirements within a two-year period.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

**IB VISUAL ARTS SL II (915108)****Standard Level year 2****Grades: 12****Credit: one/weighted +1.0****Prerequisite: IB VISUAL ARTS I Standard Level Year 1**

Students engage in advanced study of art processes, aesthetic issues, art criticism, and art history and culture while maintaining the self-discipline of the working artist. They exhibit technical proficiency and personal style while working in advanced media, and arrange an art show of their own work using professional exhibiting techniques. A culminating portfolio evidencing quality, a thematic series, breadth of work, progress over time, and highest level of achievement will be required. An investigation workbook which evidences critical research in an area agreed upon by the teacher and the student is required. Students are required to take the standard level exam at the end of year 2. Standard level students must complete the IB Visual Arts I requirements within a two-year period.

**This course requires a student materials fee as listed in FCPS Notice 5922.****IB VISUAL ARTS HL (914909)****Higher Level year 1****Grades: 11****Credit: one/weighted +1.0****Prerequisite: ART 1 and ART 2 or permission of instructor**

Students engage in advanced study of art processes, aesthetic issues, art criticism, and art history and culture while maintaining the self-discipline of the working artist. They exhibit technical proficiency and personal style while working in advanced media, and arrange an art show of their own work using professional exhibiting techniques. A culminating portfolio evidencing quality, a thematic series, breadth of work, progress over time, and highest level of achievement will be required. An investigation workbook which evidences critical research in an area agreed upon by the teacher and the student is required. Designed for the highly motivated visual arts student with imaginative and creative abilities, who may wish to pursue the visual arts at the university or college level. Students are required to take the higher level exam at the end of year 2. Higher level students must complete the Visual Arts II requirements within a two-year period.

**This course requires a student materials fee as listed in FCPS Notice 5922.****IB VISUAL ARTS HL II (915109)****Higher Level year 2****Grades: 12****Credit: one/weighted +1.0****Prerequisite: IB VISUAL ARTS HL 1 year 1**

Students engage in advanced study of art processes, aesthetic issues, art criticism, and art history and culture while maintaining the self-discipline of the working artist. They exhibit technical proficiency and personal style while working in advanced media, and arrange an art show of their own work using professional exhibiting techniques. A culminating portfolio evidencing quality, a thematic series, breadth of work, progress over time, and highest level of achievement will be required. An investigation workbook which evidences critical research in an area agreed upon by the teacher and the student is required. Designed for the highly motivated visual arts student with imaginative and creative abilities, who may wish to pursue the visual arts at the university or college level. Students are required to take the higher level exam at the end of year 2. Higher level students must complete the IB Visual Arts II requirements within a two-year period.

**This course requires a student materials fee as listed in FCPS Notice 5922.****GENERAL****IB THEORY OF KNOWLEDGE (982008)****Grades: 11, 12****Credit: one/weighted +1.0****Prerequisite: Enrollment in the IB program**

The IB Theory of Knowledge (TOK) course challenges students in the areas of critical thinking and integration of knowledge. The focus of the TOK course is studying what we know in the various fields of knowledge and how we know it. Students are led to make connections among their classroom and non-classroom knowledge and experience, and they examine the ethics, value judgments, and belief systems of the various disciplines. Students develop a critical awareness of the fields of knowledge; study the procedures, processes, and methodologies of each field; recognize the biases inherent in each discipline; understand and appreciate the importance of inquiry as a basis for knowledge; and apply standards of logic and reasoned argument to intellectual problems. Topic of study include comparing four ways of knowing, reason, sense perception, language and emotion; understanding different knowledge systems: mathematics, natural sciences, human sciences, and history, and understanding value judgment, bias, and culture across disciplines. This course carries a weighted grade.

**MARINE CORPS JUNIOR RESERVE OFFICERS TRAINING CORPS****(MCJROTC) (791313)****Leadership Education and Training (N102)****Grades: 9, 10, 11, 12****Credit: one**

Leadership Education MCJROTC (N102) is designed to acquaint the student with the scope and nature of the MCJROTC program. Subject matter includes effective study techniques, leadership traits and fundamentals, ethical standards, and goal setting. Critical thinking skills and problem-solving are introduced as well as written and oral communication. Military organization study includes unit organization; Marine Corps history, customs and courtesies; patriotism; discipline; and the role of a unit leader. The student fires and qualifies in marksmanship training and studies health, first aid, and substance abuse, in addition to weekly physical training activities. This program is only

offered on-site at Mount Vernon High School. Students may be granted pupil placement if course enrollment is desired.

**Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma.**

**MARINE CORPS JUNIOR RESERVE OFFICERS TRAINING CORPS****(MCJROTC) (791613)****Leadership Education and Training (N202)****Grades: 10, 11, 12****Credit: one****Prerequisite: Leadership Education and Training (N102)**

Leadership Education MCJROTC (N202) builds upon the material presented in N102. Follow-up topics in leadership include an examination of leadership styles and principles to include leadership motivation, authority, and responsibility. Leadership dynamics, human behavior, problem-solving, and role playing are stressed. Intermediate level public speaking, advanced first aid, drill, and the preparation and conduct of training are presented. Military organization study includes the mission of the Marine Corps' ground, aviation, and logistics units. Land navigation, military ceremonies, marksmanship training, and physical fitness assist the student in building self-confidence. This program is only offered on-site at Mount Vernon High School. Students may be granted pupil placement if course enrollment is desired.

**Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma.**

**MARINE CORPS JUNIOR RESERVE OFFICERS TRAINING CORPS****(MCJROTC) (791813)****Leadership Education and Training (N302)****Grades: 11, 12****Credit: one****Prerequisite: Leadership Education and Training (N202)**

Leadership Training MCJROTC (N302) emphasizes leadership instruction and application. Leadership topics include fundamentals of command and management techniques as well as leadership application. The student learns techniques of instruction, conducts classroom instruction, and develops training formats. Problem-solving skills emphasize group dynamics, critical thinking, resolution of conflicts, and counseling skills. Research papers encourage study of current affairs, world ideologies, and current world leaders. The student receives advanced marksmanship training, physical fitness, and drill. Organizational studies include the role of the National Security Organization. This program is only offered on-site at Mount Vernon High School. Students may be granted pupil placement if course enrollment is desired.

**MARINE CORPS JUNIOR RESERVE OFFICERS TRAINING CORPS****(MCJROTC) (791913)****Leadership Education and Training (N402)****Grades: 12****Credit: one****Prerequisite: Leadership Education and Training (N302)**

Leadership Training MCJROTC (N402) enlarges upon psychological factors of leadership, student self-analysis, attitudes of the officers and non-commissioned officers, preparation for command, communication of orders, and methods of exercising command. The student exercises officer leadership responsibilities, assists the Marine instructors, and participates in teaching drill, marksmanship, and physical fitness to junior students. This program is only offered on-site at Mount Vernon High School. Students may be granted pupil placement if course enrollment is desired.

**Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma.**

**LEADERSHIP TRAINING 1 (980800)**

**Prerequisite: Successful completion of the selection procedures including application, recommendations, and interview.**

**Grades: 10, 11, 12****Credit: one**

This course provides leadership training to interested students. It is especially appropriate for student body officers, organizational leaders, and class officers. The course includes understanding leadership, assessment of leadership styles, planning and organization skills, relationship building and problem solving. Focus will be placed on organization, time management, election processes, financial planning, opinion surveys, communication techniques, and community liaison. Student government and class activities will be the basis around which most of the course work is designed.

**PEER MEDIATION 1 (980900)****Grades: 10, 11, 12****Credit: one**

**Prerequisite: Successful completion of the selection procedures including application, recommendations, and interview. Approval by the peer mediation program instructors and the Director of Student Services is required.**

This course is designed to train students to implement a peer mediation program in the high school. The training program develops students' interpersonal support, and leadership skills for the purpose of understanding conflict resolution so that they may serve as peer mediators and work with other students to resolve disputes. Students are taught the mediation process through intensive training sessions focusing on defining conflicts, identifying needs, understanding different points of view, examining methods of prejudice reduction, identifying conflict management styles, practicing collaborate problem solving, and developing communication skills.

**SAT PREP-READING (011132)****Grades: 11, 12****Credit: one-half**

This course is designed to sharpen reasoning strategies in language and/or mathematics and to assist students in preparing for a variety of standardized testing situations--including preparation for the Scholastic Assessment Tests (SAT 1)--in which they will need to reason efficiently and correctly. This course includes preparation for the SAT writing section.

**SAT PREP-MATH (011162)****Grades: 11, 12****Credit: one-half****Prerequisite: Algebra 1 and Geometry**

This one-semester course prepares students for the math sections of the SAT Reasoning Test. Students will practice problem solving skills and test-taking strategies as well as become familiar with the structure of the math portions of the exam. The course includes a comprehensive review of math topics including numbers and operations, algebra and functions, geometry, statistics, probability, and data analysis. Diagnostic and timed practice tests will be administered throughout the course.

**HEALTH & MEDICAL SCIENCES****EXPLORING HEALTH SCIENCES (830200)****Grades: 10, 11, 12****Credit: one****Please use course code 830200 for the full year course.**

This full-year, one-credit course introduces the student to health care careers and develops basic skills common to all health and medical sciences. It is recommended as the first course for other health and medical sciences courses. This course focuses on exploring health careers, communication skills, safety, first aid, and Healthcare Provider CPR. Exploring the Language of Medicine may be taken concurrently with this course. It may be offered at base schools as an optional course.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma.**

**EXPLORING THE LANGUAGE OF MEDICINE (838300)****Grades: 10, 11, 12****Credit: one****Prerequisite: Exploring Health Sciences is recommended****Corequisite: Exploring Health Sciences is recommended****Please use course code 838300 for the full year course**

This full year, one-credit course builds on the foundations of the Exploring Health Sciences course and may be taken concurrently with Exploring Health Sciences. Exploring the Language of Medicine is designed to help students learn medical terminology. It is presented in logical order, beginning with each body system's anatomy and physiology and progressing through pathology, diagnostic procedures, therapeutic interventions, and pharmacology. Concepts, terms and abbreviations are also presented to the students. It may be offered at base schools as an optional course.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma.**

**HEALTH and PHYSICAL EDUCATION****HEALTH AND PHYSICAL EDUCATION 9 (730000)****Grades: 9****Credit: one**

Students gain knowledge and skills in a variety of individual, dual, and team sports to develop competencies to promote an active lifestyle. Personal fitness and planning concepts are taught. One quarter of the course includes instruction in the health education topics of drug use prevention: alcohol, tobacco, and other drugs, emotional and social health, personal health, injury and violence prevention, disease prevention, and cardiopulmonary resuscitation and automated external defibrillation (CPR and AED).

**HEALTH AND PHYSICAL EDUCATION 10 (740500)****Grades: 10****Credit: one****Prerequisite: Successful completion of Health and Physical Education, grade 9**

Students demonstrate competency in a lifetime sport or activity and demonstrate personal fitness assessment, and an understanding of planning and monitoring. One quarter of the course includes instruction in the health education topics; personal and community health, nutrition, human growth and development, and injury and violence prevention. One quarter of the course includes the classroom component of driver education. All quarter grades are averaged to determine the final HPE grade. Effective September 2010, a mandatory 90 minute Parent/Teen Safe Driving Presentation will be added to the classroom curriculum requirements for driver education.

**ADVANCED PHYSICAL EDUCATION 11 (751000)****Grades: 11****Credit: one****Prerequisite: Successful completion of grade 9 and grade 10 health and physical education.**

Students continue to learn and master and/or refine lifetime sports activities with emphasis on health and sports related fitness, as they relate to attainment of a healthy lifestyle. Students may elect this course in grade 11. Students may not take this course in lieu of Health and Physical Education grade 9 or grade 10 course requirements.

**ADVANCED PHYSICAL EDUCATION 12 (761000)****Grades: 12****Credit: one****Prerequisite: Successful completion of grade 9 and grade 10 health and physical education.**

Students continue to learn and master and/or refine lifetime sports activities with emphasis on health and sports related fitness, as they relate to attainment of a healthy lifestyle. Students may elect this course in grade 12. Students may not take this course in lieu of Health and Physical Education grade 9 or 10 requirement.

**SPORTS MEDICINE (763000)****Grades: 10, 11, 12****Credit: one****Prerequisite: Successful completion or concurrent enrollment in biology.**

Topics include medical professions, anatomy and physiology of skeletal and muscular systems, kinesiology, types of injuries, injury prevention and nutrition. Students may not take this course in lieu of the grade 9 or grade 10 Health or Physical Education requirements.

**PERSONAL FITNESS - LEVEL 1 (764011) (764061;764062-semester)****Grades: 10, 11, 12****Credit: one-half or one****Prerequisite: Successful completion of Health and Physical Education, grade 9**

Students study and apply concepts related to human anatomy and physiology, kinesiology, nutrition, and personal fitness planning. Students will develop and participate in a personal fitness program to improve cardiorespiratory endurance, flexibility, muscular strength and endurance, and body composition. Students may not take this course in lieu of the grade 9 or grade 10 Health and Physical Education requirements.

**PERSONAL FITNESS - LEVEL 2 (764012) (764063; 764064-semester)****Grades: 11, 12****Credit: one****Prerequisite: Successful completion of Personal Fitness - Level 1**

Students extend and enrich their knowledge and the application of human anatomy and physiology, kinesiology, nutrition, and personal fitness planning. Students will develop and participate in a personal fitness program to improve cardiorespiratory endurance, flexibility, muscular strength and endurance, and body composition. Students will utilize concepts to assess, plan, monitor, and modify their individual personal fitness plan. Students may not take this course in lieu of the grade 9 or grade 10 Health and Physical Education requirements.

**MARKETING****ADVANCED SPORTS AND ENTERTAINMENT MARKETING (817700)****Grades: 11, 12****Credit: one****Prerequisite: Sports and Entertainment Marketing (817500)**

Enrollment in this advanced-level course will allow students to expand their knowledge in the sports and entertainment field. Instructional topics include: contracts, the role of agents and personal managers, market research, planning and segmentation, group sales, business ethics, management, and entrepreneurship. Classroom instruction will be reinforced through the use of case studies, guest lecturers, and field trips. While enrolled in the course, the student is an active member of DECA, an association of marketing students. The cooperative education (Marketing Cooperative Internship) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

**FASHION MARKETING 1 (814000)****Grades: 10, 11, 12****Credit: one**

Fashion Marketing is a specialized course designed for students interested in the business aspect of the fashion industry. Curriculum units include an overview of basic apparel and accessories terminology, foundations and functions of business and marketing, sales and buying motives, economics, textiles, color, line and design, historical costume, career development, promotion, visual merchandising, and fashion show production. Cross curricular skills in research, merchandising mathematics, textile chemistry, computer applications, and creative and technical writing are reinforced in this course. Work-based learning strategies appropriate for this course may include job shadowing, paid/unpaid internships, field trips, and/or cooperative education. Marketing simulations, case studies, projects, teamwork, guest speakers, and DECA competitions provide many opportunities

for application of instructional competencies. The cooperative education (Marketing Cooperative Internship) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

#### **FASHION MARKETING 2 (814500)**

**Grades: 11, 12**

**Credit: one**

**Prerequisite: Marketing 1 (812000) or Fashion Marketing 1 (814000)**

This curriculum provides an in-depth study of merchandising techniques, fashion trends, fashion promotion, and management skills. Students may supplement the classroom instruction through an internship experience or they may enroll in the course without the additional commitment required through on-the-job training. While enrolled in the course, the student is an active member of DECA, an association of marketing students. (Students interested in this course should also see Fashion Design 1 under Family and Consumer Sciences.) The cooperative education (Marketing Cooperative Internship) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

#### **INTRODUCTION TO MARKETING (811000)**

**Grades: 9, 10**

**Credit: one**

This introductory course in marketing enables students to gain a basic understanding of marketing principles, techniques, and career opportunities. Students will develop fundamental social, economic, mathematical, marketing, job search and decision-making skills necessary for successful initial employment in retail, wholesale, or service businesses. While enrolled in the course, the student is an active member of DECA, an association of marketing students. Field trips, guest speakers, and competitive events through DECA membership enhance the course work.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

#### **MARKETING 1 (812000)**

**Grades: 10, 11, 12**

**Credit: one**

Students are introduced to the foundations and functions involved in the successful marketing of goods, services and ideas to consumers. Students will study marketing and business foundations, career development, economics, selling, shortage prevention, human relations, communications, distribution, promotion, product planning, credit pricing, and marketing mathematics. Students may supplement the classroom instruction through participation in an internship experience, or they may enroll in the course without the additional commitment required through on-the-job training. While enrolled in this course, the student is an active member of DECA, an association of marketing students. The cooperative education (Marketing Cooperative Internship) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

#### **GLOBAL MARKETING (813500)**

**Grades: 10, 11, 12**

**Credit: one**

**Prerequisite: It is recommended that students be enrolled in a foreign language either concurrently or prior to enrollment in Global Marketing.**

Through this course, students are introduced to the international marketing arena, where they receive a strong foundation in the following concepts: marketing, economics, international trade, and international finance. The course exposes students to economical, geographical, political, legal, and cultural influences in international markets. Emphasis on product development, pricing, promotion, and distribution are explored from an international perspective. Much of the course is tied to current events. While enrolled in the course, the student is an active member of DECA. DECA prepares emerging leaders and entrepreneurs in marketing, finance, hospitality and management in high schools and colleges around the globe. Field trips, guest speakers, and DECA competitive events are used to enhance the course work. The cooperative education (Marketing Cooperative

Internship) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

#### **SPORTS AND ENTERTAINMENT MARKETING (817500)**

**Grades: 10, 11, 12**

**Credit: one**

Sports and Entertainment Marketing is a unique and innovative course designed for students with an interest in the sports and entertainment industry. Instructional areas include: an orientation to the sports and entertainment industry, market analysis, decision making, event marketing, event execution, and the production of a culminating event and analysis of the event. Classroom instruction will be reinforced through the use of outside lectures, case studies, and field trip experiences. While enrolled in the course, the student is an active member of DECA, an association of marketing students. The cooperative education (Marketing Cooperative Internship) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

#### **EDUCATION FOR EMPLOYMENT 1 (EFE) FOR MARKETING (902000)**

**Grades: 9, 10, 11**

**Credit: one or two**

Students explore independent living and workplace skills by identifying individual assets, interests, aptitudes, talents, and current occupational abilities. Through practical experiences related to daily living and work, students determine strategies to improve their assets and ways to emphasize their strengths at home, school, and in the workplace. The cooperative education (Education for Employment Cooperative Internship) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. Students who successfully complete 396 hours of supervised on-the-job training in a related occupation will earn one credit. Students who successfully complete 720 hours of supervised on-the-job training in a related occupation can earn two credits.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

#### **EDUCATION FOR EMPLOYMENT 2 (EFE) FOR MARKETING (902100)**

**Grades: 10, 11, 12**

**Credit: one or two**

**Prerequisite: EDUCATION FOR EMPLOYMENT 1 (EFE - 902000)**

Students begin to make the transition from school to work by gaining technical skills, conducting a job search, and maintaining successful employment by demonstrating positive work traits and attitudes and continuing to develop technical skills. They focus on balancing their roles of worker, student, family member, and citizen. The cooperative education (Education for Employment Cooperative Internship) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. Students who successfully complete 396 hours of supervised on-the-job training in a related occupation will earn one credit. Students who successfully complete 720 hours of supervised on-the-job training in a related occupation can earn two credits.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

#### **MARKETING COOPERATIVE INTERNSHIP (CO-OP) (819920)**

**Grades: 10, 11, 12**

**Credit: one**

**Corequisite: Student must be concurrently enrolled in a Marketing or EFE course.**

The Marketing Cooperative Internship (Co-op) option enhances classroom instruction by providing practical work experience that is relevant to students' career goals. Students enrolled in Co-op attend at least one marketing or EFE class and work a minimum of 396 hours (10 hours per week) in an approved, supervised marketing-related, part-time job for one credit.

**MARKETING COOPERATIVE INTERNSHIP (CO-OP) (819921)****Grades: 10, 11, 12****Credit: two****Corequisite: Student must be concurrently enrolled in a Marketing or EFE course.**

The Marketing Cooperative Internship (Co-op) option enhances classroom instruction by providing practical work experience that is relevant to students' career goals. Students enrolled in Co-op attend at least one marketing or EFE class and work a minimum of 720 hours (20 hours per week) in an approved, supervised marketing-related, part-time job for two credits.

**MATHEMATICS****ALGEBRA 1 (313000)****Grades: 9, 10, 11****Credit: one****Prerequisite: Middle School Mathematics**

This course extends students' knowledge and understanding of the real number system and its properties through the study of variables, expressions, equations, inequalities, and analysis of data derived from real-world phenomena. Emphasis is placed on making connections in algebra to geometry and statistics. Calculator and computer technologies will be used as tools wherever appropriate. Use of a graphing calculator is considered essential to provide a graphical and numerical approach to topics in addition to a symbolic approach. Topics include linear equations and inequalities, systems of linear equations, relations, functions and polynomials.

**Students are required to take the Standards of Learning End of Course Test.****ALGEBRA 1 HONORS (313036)****Grades: 9****Credit: one/weighted +.5****Prerequisite: Mathematics 7 and/or Mathematics 8**

The depth and level of understanding expected in Algebra I Honors is beyond the scope of Algebra I. Students are expected to master algebraic mechanics and understand the underlying theory, as well as apply the concepts to real-world situations in a meaningful way. Students extend knowledge and understanding of the real number system and its properties through the study of variables, expressions, equations, inequalities, and the analysis of data from real world phenomena. Emphasis is placed on algebraic connections to arithmetic, geometry, and statistics. Calculators and computer technologies are integral tools. Graphing calculators are an essential tool for every student to explore graphical, numerical, and symbolic relationships.

**Students are required to take the Standards of Learning End of Course Test.****GEOMETRY (314300)****Grades: 9, 10, 11, 12****Credit: one****Prerequisite: Algebra 1**

This course emphasizes two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. A variety of applications and some general problem-solving techniques, including algebraic skills, will be used to explore geometric relationships. Conjectures about properties and relationships are developed inductively and then verified deductively. Calculators, computers, graphing utilities, dynamic geometry software, and other appropriate technology tools will be used to assist in teaching and learning.

**Students are required to take the Standards of Learning End of Course Test.****GEOMETRY HONORS (314336)****Grades: 8, 9, 10****Credit: one/weighted +.5****Prerequisite: Algebra 1**

The depth and level of understanding expected in Geometry Honors is beyond the scope of Geometry. This course emphasizes two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. A variety of applications and some general problem-solving techniques, including algebraic skills, will be used to explore geometric relationships. Conjectures about properties and relationships are developed inductively and then verified deductively. Students investigate non-Euclidean geometries, formal logic, and use deductive proofs to verify theorems. Calculators, computers, graphing utilities, dynamic geometry software, and other appropriate technology tools will be used to assist in teaching and learning.

**Students are required to take the Standards of Learning End of Course Test.****ALGEBRA 2 (313500)****Grades: 10, 11, 12****Credit: one****Prerequisite: Algebra 1**

Algebra 2 provides a thorough treatment of algebraic concepts through the study of functions, polynomials, rational expressions, complex numbers, exponential and logarithmic equations, matrices, arithmetic and geometric sequences and series, and data analysis. Emphasis is placed on the mechanics of algebra with real world applications and modeling. A transformational approach to graphing is used with families of related graphs. Numerical, graphical, and algebraic solutions are considered for all problems as applicable. Graphing utilities, especially graphing calculators, are integral to the course.

**Students are required to take the Standards of Learning End of Course Test.****ALGEBRA 2 HONORS (313536)****Grades: 9, 10, 11****Credit: one/weighted +.5****Prerequisite: Algebra 1**

The depth and level of understanding expected in Algebra 2 Honors is beyond the scope of Algebra 2. Students are expected not only to master algebraic mechanics but also to understand the underlying theory and to apply the concepts to real-world situations in a meaningful way. A thorough treatment of advanced algebraic concepts is provided through the study of functions, polynomials, rational expressions, complex numbers, matrices, exponential and logarithmic equations, infinite geometric sequences and series, permutations and combinations, and selected topics in discrete mathematics. Emphasis is on modeling, logic, and interpretation of results. A transformational approach to graphing is used with families of related graphs. Numerical, graphical, and algebraic solutions are considered for all problems, as applicable. Graphing utilities, especially graphing calculators, are integral to the course.

**Students are required to take the Standards of Learning End of Course Test.****PRECALCULUS WITH TRIGONOMETRY (316000)****Grades: 10, 11, 12****Credit: one****Prerequisite: Geometry and Algebra 2**

Precalculus with Trigonometry includes all the topics of Trigonometry (3150) and a thorough treatment of functions through the study of polynomials, rational functions, logarithmic, exponential, and inverse functions. Topics include continuity, maximum and minimum points, an intuitive approach to limits, and rates of change. A transformational approach to graphing is used with families of related graphs. Numerical, graphical, and algebraic solutions are considered for all problems as applicable. Emphasis will be placed on problem solving techniques. Graphing utilities, especially graphing calculators, are integral to the course.

**PRECALCULUS WITH TRIGONOMETRY HONORS (316036)****Grades: 10, 11, 12****Credit: one/weighted +.5****Prerequisite: Geometry and Algebra 2**

The depth and level of understanding expected in Precalculus with Trigonometry Honors is beyond the scope of Precalculus with Trigonometry. Precalculus with Trigonometry Honors includes all of the topics of Trigonometry (3150) and an in-depth treatment of functions through the study of polynomials, transformations, rational functions, exponential and logarithmic functions, inverses, polar equations, parametric equations, two-dimensional vectors, and selected topics in discrete mathematics. The course also includes the study of limits, continuity, maximum and minimum points and values, definition and properties of the derivative, rules of differentiation, equations of tangent lines to polynomial functions, infinite limits, and partial fractions. Numerical, graphical, and algebraic solutions are considered for all problems as applicable. Graphing utilities, especially graphing calculators, are integral to the course.

**COMPUTER SCIENCE (318400)****Grades: 9, 10, 11, 12****Credit: one****Prerequisite: Algebra 1 and Geometry**

Students develop detailed knowledge of the fundamental structure of a computer system, with emphasis on problem solving and structured programming. Skills in defining, writing, and running programs on a computer are developed through an individual approach that allows the student to work with both mathematical and non-mathematical problems. Java will be the major programming language.

**PROBABILITY AND STATISTICS (319062)****Grades: 11, 12****Credit: one****Prerequisite: Geometry and Algebra 2**

Probability and Statistics is a computer-based, project-oriented introduction to statistics that emphasizes working with data, graphs, and statistical ideas on computers, using the Minitab and FATHOM statistical software. Students are expected to develop and present professional quality statistical analyses. Course content includes theory of probability, description of statistical measurements, and probability distributions.

**IB MATHEMATICS STUDIES SL (319608)****Grades: 11, 12****Credit: one/weighted +1.0****Prerequisite: Precalculus with Trigonometry or equivalent**

The content of this course includes a study of functions, algebraic geometry, trigonometry, probability and statistics, sets and logic, financial mathematics, introductory differential calculus, and mathematical applications in the natural world. All students in this course must complete a project. Students are required to take the standard level exam.

**IB MATHEMATICS SL I (316308)****Grades: 10, 11****Credit: one/weighted +.5****Prerequisite: Geometry and Algebra 2 (or Algebra 2/Trigonometry)**

This course begins with the study of polynomial, rational, logarithmic, exponential, trigonometric, and inverse functions and their applications. Sequences and series are investigated to provide a foundation for limits and continuity. The course includes the study of vectors, matrices and differential calculus and expands on topics in trigonometry. Students will be required to begin a portfolio of problems for the Internal Assessment. IB Mathematics SL I together with IB Mathematics SL II prepares students to take the standard level exam.

**IB MATHEMATICS SL II (319508)****Grades: 11, 12****Credit: one/weighted +1.0****Prerequisite: IB Mathematics SL I or Precalculus with Trigonometry Honors**

This course concludes the study of the concepts introduced in IB Mathematics SL I. The course includes the study of differential and integral calculus of functions of a single variable with applications. The course reemphasizes and expands upon topics in vectors and matrices introduced in IB Mathematics SL I. The course also includes the study of the theory and application of probability, random variables, and both descriptive and inferential statistics. Students are required to complete a portfolio of problems for the Internal Assessment. Students are required to take the standard level exam.

**IB MATHEMATICS HL I (317709)****Grades: 11, 12****Credit: one/weighted +1.0****Prerequisite: Algebra 2/Trigonometry or Precalculus with Trigonometry Honors or equivalent**

This is the first year of a two-year intensive college-level study of mathematics. Course content includes the study of precalculus topics, algebraic and transcendental functions and their inverses, matrices, three dimensional vectors and differential calculus. Students will be required to begin a portfolio of problems for the Internal Assessment. IB Mathematics HL I together with IB Mathematics HL II prepares students for the higher level exam.

**IB MATHEMATICS HL II (317009)****Grades: 11, 12****Credit: one/weighted +1.0****Prerequisite: IB Mathematics HL I**

This is the second year of a two-year intensive college level study of mathematics. Course content includes integral calculus, the study of the theory and application of probability, random variables, both descriptive and inferential statistics, three-dimensional vectors, infinite series and differential equations. Students are required to complete a portfolio of problems for the Internal Assessment. IB Mathematics HL I together with IB Mathematics HL II prepares students for the higher level exam. Students are required to take the higher level exam.

**IB COMPUTER SCIENCE SL (318508)****Grades: 11, 12****Credit: one/weighted +1.0****Prerequisite: Computer Science or equivalent**

The content of this course includes software development, computer systems, system design, social significance, number systems and Boolean Logic, advanced data structures and algorithms, objects and their use in problem solutions, the system life cycle, and file organization. The understanding of a case study will be included. Students will complete an in-depth project that demonstrates mastery of all required Standard Level aspects. Students are required to take the standard level exam.

**SCIENCE****BIOLOGY 1 (431000)****Grades: 9, 10, 11, 12****Credit: one**

In Biology 1, students engage in scientific inquiry through lab work as they explore biological processes. All class and laboratory activities focus on life processes that occur within organisms or cells as well as the characteristics of life including: reproduction, development, and adaptation to environment. Major topics of study include molecular biology, cells, genetics, organisms, evolution and ecology. The course includes a unit on human life education that addresses the topics of human reproduction and human development. Parents have the option of withdrawing their child from any or all topics included in the state-mandated Family Life Education portion. Students opting-out will be provided with alternative biology lessons. If dissections are a part of the laboratory experience, alternatives are available.

**Students are required to take the Standards of Learning End of Course Test.****BIOLOGY 1 HONORS (431036)****Grades: 9, 10, 11, 12****Credit: one/weighted +.5**

In Biology 1 Honors, students engage in scientific inquiry as they explore biological processes. All class activities and laboratory activities focus on life processes that occur within organisms or cells as well as the characteristics of life including: reproduction, development, and adaptation to environment. Major topics of study include molecular biology, cells, genetics, organisms, evolution and ecology. In comparison to Biology 1, students will investigate some topics at a deeper level including biotechnology, health and environmental issues. Students will be involved in an externally-moderated experimental/research project. The course includes a unit on human life education that addresses the topics of human reproduction and human development. Parents have the option of withdrawing their child from any or all topics included in the state-mandated Family Life Education portion. Students opting-out will be provided with alternative biology lessons. If dissections are a part of the laboratory experience, alternatives are available. Students are expected to participate in the local Science Fair.

**Students are required to take the Standards of Learning End of Course Test.****IB BIOLOGY I (438008)****Grades: 11****Credit: one/weighted +1.0****Prerequisite: Chemistry 1**

IB Biology I is the first year of a two-year sequence wherein students study biology in depth. During this course, students will study such topics as cell structure, nucleic acids and proteins; cellular respiration and photosynthesis; genetics; human reproduction, defense against infectious disease; classification and diversity; nerves, muscles, and movement; and plant science. Participation in an interdisciplinary science research (Group 4) project is required. Laboratory investigations form a major component of the course and all students must maintain a portfolio of laboratory work that is presented to the IB examiners. If dissections are part of the laboratory experience, alternatives are available. IB Biology I together with IB Biology II will prepare students for the higher level exam. Students are expected to participate in the local Science Fair.

**IB BIOLOGY SL (439008)****Grades: 11, 12****Credit: one/weighted +1.0****Prerequisite: Biology I and Chemistry 1**

IB Biology SL covers the core standard level topics of the IB Biology program. During this course, students will study such topics as cell structure, nucleic acids and proteins; cellular respiration and photosynthesis; genetics; human reproduction, defense against infectious disease; classification and diversity; nerves, muscles, and movement; and plant science. Participation in an interdisciplinary science research (Group 4) project is required. Laboratory investigations form a major component of the course and all students must maintain a portfolio of laboratory work that is presented to the IB examiners. If dissections are part of the laboratory experience, alternatives are available. IB Biology I SL prepares students for IB's standard level exam.

**IB BIOLOGY HL II (439009)****Grades: 12****Credit: one/weighted +1.0****Prerequisite: IB Biology I**

IB Biology II is the second year of a two-year sequence wherein students study biology in depth. Students continue the higher level topics on the cell; nucleic acids and proteins; cell respiration and photosynthesis; genetics; human reproduction; defense against infectious disease; classification and diversity; nerves, muscles, and movement; and plant science. In addition, students study higher level options that may include evolution; neurobiology and behavior; applied plant and animal science; ecology and conservation; microbes and biotechnology; or human physiology. Participation in an interdisciplinary science research (Group 4) project is required (either in IB Biology I or in this class). Laboratory investigations form a major component of the course and all students must maintain a portfolio of laboratory work that is presented to the IB examiners. If dissections are part of the laboratory experience, alternatives are available. Students are required to take the IB Biology higher level exam. Students are expected to participate in the local Science Fair.

**HUMAN ANATOMY AND PHYSIOLOGY: AN INTRODUCTION TO THE MEDICAL SCIENCES (433000)****Grades: 11, 12****Credit: one****Prerequisite: Biology and Chemistry**

Human Anatomy and Physiology provides students with an in-depth understanding and working knowledge of the human body. It covers the ten systems of the human body with emphasis on the mechanisms that maintain homeostasis. Lab activities cover both the physiological and anatomical aspects of human biology. Students have the opportunity to explore careers in the medical sciences. An independent project is required. If dissections are part of the laboratory experience, alternatives are available. This course does not count as one of the science credits for the standard diploma. It can be used as the fourth science credit for an advanced studies diploma, if the student has already taken three science courses from three different disciplines.

**CHEMISTRY 1 (441000)****Grades: 10, 11, 12****Credit: one****Prerequisite: One laboratory science course, Algebra 1**

Chemistry I provides students the opportunity to develop their critical thinking skills as they acquire a better understanding of the chemical nature of our world. Students investigate the composition, properties, and reactions of matter. The approach is inductive, mathematical, and conceptual. Laboratory experiments and subsequent classroom analysis are integral components of the course.

**Students are required to take the Standards of Learning End of Course Test.***Recommended: Passing score on the Algebra I SOL test***IB CHEMISTRY I (441007)****Grades: 10, 11, 12****Credit: one/weighted +.5****Prerequisite: Biology 1, Algebra 1****Corequisite: Algebra 2**

This course provides a general introduction to chemistry. The topics of study include atomic structure, ionic and covalent compounds, chemical equations, stoichiometry, gases, solutions, and acids and bases. The history and philosophy of science are included throughout the course. Students learn to design experiments, to collect data, and to analyze data using graphical and statistical methods. They design and conduct experimental research projects. Participation in an interdisciplinary science research (Group 4) project is required. Laboratory investigations form a major component of the course and all students must maintain a portfolio of laboratory work that is presented to the IB examiners. IB Chemistry I meets the course requirements of Chemistry 1 Honors. Students are expected to participate in the local Science Fair.

**Students are required to take the Standards of Learning End of Course Test.**

**IB CHEMISTRY II SL (449008)****Grades: 11, 12****Credit: one/weighted +1.0****Prerequisite: IB Chemistry I**

This second level course provides students with hands-on laboratory experiences and a comprehensive study of introductory chemistry. Students study atomic theory, structure and bonding, energetics, equilibrium kinetics, periodicity, and carbon chemistry. A more thorough study is made of topics in organic chemistry than is traditionally done in high school chemistry. Participation in an interdisciplinary science research (Group 4) project is required. Laboratory investigations form a major component of the course and all students must maintain a portfolio of laboratory work that is presented to the IB examiners. Students are required to take the IB Chemistry standard level exam. Students are expected to participate in the local Science Fair.

**IB CHEMISTRY II HL (449009)****Grades: 12****Credit: one/weighted +1.0****Prerequisite: IB Chemistry I**

The college level course provides students with hands-on laboratory experiences and a comprehensive study of introductory chemistry. Students study atomic theory, structure and bonding, energetics, equilibrium kinetics, periodicity, and carbon chemistry. A more thorough study is made of topics in organic chemistry than is traditionally done in high school chemistry. Students are required to complete an interdisciplinary science project. Students are required to take the IB Chemistry higher level exam. Students are expected to participate in the local Science Fair.

**ACTIVE PHYSICS (451050)****Grades: 10, 11, 12****Credit: one****Prerequisite: One laboratory science course**

Active Physics is a physics course for students who have not yet passed Algebra I. This course has a strong emphasis on experimentation. The units of study focus on predictions and real-world applications such as sports, medicine, transportation, home, and communication. The physics content is presented in a problem solving manner to strengthen science and mathematics content knowledge and skills.

**PHYSICS 1 (451000)****Grades: 11, 12****Credit: one****Prerequisite: Two laboratory science courses**

Physics 1 introduces the central concepts of physics, including kinematics, dynamics, the conservation laws (mass, energy, and momentum), electricity, magnetism, and waves. This laboratory-centered course utilizes an approach that is inductive and mathematical as well as conceptual.

**IB PHYSICS I (451007)****Grades: 10, 11****Credit: one/weighted +.5****Prerequisite: Two laboratory science courses****Corequisite: Algebra 2 or Precalculus with Trigonometry or IB Mathematics I**

IB Physics I topics include mechanics, electricity, magnetism, waves, thermodynamics, atomic physics, climate change, and alternative energy sources. Laboratory investigations form a major component of the course and all students must maintain a portfolio of laboratory work that is presented to the IB examiners. At the end of the first year, students may choose to continue with either standard or higher level IB physics studies, according to the student's and the local school's offerings. This course is the first in a two-year sequence designed to prepare students for the IB standard level examination in physics. Students will be involved in an externally-moderated experimental/research project. IB Physics I meets the course requirements of Physics 1 Honors. Students are expected to participate in the local Science Fair.

**IB PHYSICS II SL (459008)****Grades: 11, 12****Credit: one/weighted +1.0****Prerequisite: IB Physics I****Corequisite: IB Mathematics SL or IB Mathematics HL**

The topics--mechanics, electricity and magnetism, waves, thermodynamics, climate, and atomic physics--addressed in IB Physics I are revisited in more depth and breadth. Additionally, students will study two topics from among sight & wave phenomena, quantum & nuclear physics, digital technology, relativity & particle physics, astrophysics, communications, or electromagnetic waves. Students are required to complete an interdisciplinary science project. Students are required to take the IB Physics standard level exam. Students are expected to participate in the local Science Fair.

**GEOSYSTEMS (422000)****Grades: 11, 12****Credit: one****Prerequisite: Biology 1 and Chemistry 1**

Geosystems utilizes content from geology, astronomy, oceanography, and meteorology to investigate, both qualitatively and quantitatively, the major earth systems (atmosphere, hydrosphere, lithosphere, biosphere) and their dynamic inter-relationships. Students explore concepts with the same tools professional scientists use including computers, Geographic Information Systems (GIS), Global Positioning System (GPS), image processing software, and probeware.

**Students are required to take the Standards of Learning End of Course Test.****GEOSYSTEMS HONORS (422036)****Grades: 11, 12****Credit: one/weighted +.5****Prerequisite: Biology 1 and Chemistry 1**

Geosystems Honors utilizes content from geology, astronomy, oceanography, and meteorology to investigate, both qualitatively and quantitatively, the major earth systems (atmosphere, hydrosphere, lithosphere, biosphere) and their dynamic inter-relationships. Students explore concepts with the same tools professional scientists use including computers, Geographic Information Systems (GIS), Global Positioning System (GPS), image processing software, and probeware. Students will investigate some topics at a deeper level and will participate in an externally-moderated experimental/research project. Students are required to take the Standards of Learning End of Course Test. Students are expected to participate in the local Science Fair.

**Students are required to take the Standards of Learning End of Course Test.****IB ENVIRONMENTAL SYSTEMS AND SOCIETIES SL (428008)****Grades: 11, 12****Credit: one/weighted +1.0****Prerequisite: Biology 1 and Chemistry 1**

The purpose of this course is to provide students with a coherent perspective on the environment that is essentially scientific and above all enables them to adopt an informed and responsible stance on a wide range of pressing environmental issues they will inevitably face. The course focuses on the fundamental structure and functioning of natural systems and the broad impacts of human activities. Students examine systems and models, the ecosystem, global cycles and physical systems, and human population and carrying capacity. They analyze a specific ecosystem as well as the impacts of resource exploitation, conservation and biodiversity, and pollution. Laboratory investigations, including field studies, form a major component of the course and all students must maintain a portfolio of laboratory work that is presented to the IB examiners. Students are required to take the IB Environmental Systems and Societies standard level exam. Students are expected to participate in the local Science Fair.

**ASTRONOMY (426000)****Grades: 11, 12****Credit: one****Prerequisite: Two laboratory science courses**

Astronomy deals with such topics as the universe, universal laws, galaxies, stellar evolution, the solar system and its motion, and the exploration of space. This course is designed to be an in-depth and mathematical treatment of astronomy concepts. This course does not count as one of the science credits for the standard diploma. It can be used as the fourth credit for an advanced studies diploma, if the student has already taken three science courses from three different disciplines.

**SOCIAL STUDIES****WORLD HISTORY AND GEOGRAPHY 1 (221900)****Grades: 9****Credit: one**

This is the first of a two-year, chronologically organized study of world history and geography. In this first year, students study the world from ancient times to 1500. The course highlights the relationship between the geography and history of Europe, Africa, Asia, and Latin America. Students refine and expand critical thinking skills, practice decision making and problem solving, and formulate questions to guide research. World History and Geography 1 is required for graduation.

**Students are required to take the Standards of Learning End of Course Test.****WORLD HISTORY AND GEOGRAPHY 1 HONORS (221936)****Grades: 12****Credit: one/weighted +.5**

This is the first of a two-year, chronologically organized study of world history and geography. In this first year, students study the world from ancient times to 1500. The course highlights the relationship between the geography and history of Europe, Africa, Asia, and Latin America. Students examine the relationship among social, economic and geopolitical developments across time and place. They use the processes of conceptual and critical thinking to analyze historical and contemporary issues. Students are encouraged to think independently while developing group process skills. World History and Geography 1 Honors satisfies the World History and Geography 1 graduation requirement.

**Students are required to take the Standards of Learning End of Course Test.****WORLD HISTORY AND GEOGRAPHY 2 (222100)****Grades: 10****Credit: one**

This is the second of a two-year, chronologically organized study of world history and geography. In this second year, students study the world from 1500 through the contemporary era. The course weaves together the skills and content of both history and geography so that students may learn how history and geography affect each other and therefore gain a more complete understanding of the world around them, including North and South America, Europe, Asia, and Africa. Students continue to refine and expand critical thinking skills, practice decision making and problem solving, and formulate questions to guide research. World History and Geography 2 is required for graduation.

**Students are required to take the Standards of Learning End of Course Test.**

**WORLD HISTORY AND GEOGRAPHY 2 HONORS (222136)****Grades: 9** **Credit: one/weighted +.5**

This course is a chronologically organized study of world history and geography with an emphasis on the modern era devoted to the geography and history of Europe, Africa, Asia and the Americas from 1500 to the present. Students examine the relationship among social, economic and geopolitical developments across time and place. They use the processes of conceptual and critical thinking to analyze historical and contemporary issues. Students engage in intensive analytical reading, writing and discussion. This is the first of a four-year history and social science sequence for IB history. Honors World History and Geography 2 meets the course requirements of World History and Geography 2. This course has an end-of course Standards of Learning test for World History and Geography 2.

**Students are required to take the Standards of Learning End of Course Test.****US VA HISTORY (236000)****Grades: 11** **Credit: one**

Students examine the political, economic, social, and cultural growth of the United States, including the role of Virginia in this growth. Students study major historical developments and their impact on contemporary society and on the individual. Map and globe reading, critical thinking, writing, research, and group-process skills are refined. Virginia and United States History is required for graduation.

**Students are required to take the Standards of Learning End of Course Test.****US VA GOVERNMENT (244000)****Grades: 12** **Credit: one**

Students examine both the structure and function of American government at the national, state, and local levels. The course focuses on political decision-making, comparative political and economic systems, and the student's role as a citizen. Critical thinking, writing, research, and group-process skills are refined. Virginia and United States Government is required for graduation.

**US VA GOVERNMENT HONORS (244507)****Grades: 10, 11** **Credit: one/weighted +.5**

In this course, students study political philosophy and the structures and functions of local, state, and national governments. This course is intended for students in IB schools who wish to pursue an IB diploma. In addition, students will investigate the governments of the countries that they will study in their later IB history courses. Important elements of the class include congressional and judicial simulations as well as small and large group discussion and research on current political and economic issues. One additional feature of this course is that the students will have direct instruction in time management and study skills to help prepare them for the rigors of the IB program including IB History I and IB History II.

**IB HISTORY I: HISTORY OF THE AMERICAS (236009)****Grades: 11** **Credit: one/weighted +1.0****Prerequisite: Honors World History and Geography and Honors Government or World History and Geography I and World History and Geography II**

Students study political, social, economic and cultural history of the nations of the Western Hemisphere with an emphasis placed on the history of the United States and are introduced to history as a discipline, the nature and variety of historical sources, and the historian's methods. The historical narrative begins with the fifteenth century encounter by Europeans with American cultures and concludes with the entrance of the United States upon the world stage in the early years of the twentieth century. Topics for study include encounter and exchange, colonial institutions, collapse of imperial regimes, evolution of nineteenth century institutions, and the Americas in the industrial age. Students are expected to perceive past events and issues as they were experienced by people at the time, to acquire a comprehension both of diverse cultures and of shared humanity, and to understand the significance of the past to their own lives. IB History I together with IB History II prepares students to take the higher level exam.

**Students are required to take the Standards of Learning End of Course Test.****IB HISTORY II: TOPICS IN 20TH CENTURY WORLD HISTORY SL/HL (236109)****Grades: 12** **Credit: one/weighted +1.0****Prerequisite: IB History I: History of the Americas**

This course offers students an opportunity to study selected twentieth century topics in World History in an international dimension. Case studies of the major events and issues of the twentieth century are studied. Students read widely, acquiring the skills to evaluate, to interpret, and to use source material critically as historical evidence. These skills are specifically examined in the IB final. Additionally, students are expected to demonstrate an awareness of historical perspective and a consistently high level of critical analysis and handling of evidence in expository writing. A significant part of the final grade is an independent research project. Students are required to take either the standard level or the higher level exam. IB History II, together with IB History I, prepares students to take the higher level exam.

**PSYCHOLOGY (290000)****Grades: 11, 12** **Credit: one**

Students examine patterns and variations of human behavior and the process of individual human development. They identify and examine the emotional, intellectual, and physical factors which influence the development of the individual human being. Students distinguish among the major schools and systems of psychology and methods of investigation.

**SOCIOLOGY (250000)****Grades: 11, 12** **Credit: one**

Students study the ways people behave in groups. They examine ways that groups function in society and analyze these functions. Students develop hypotheses about people in groups and gather information to test these hypotheses.

**WORLD LANGUAGES****FRENCH 1 (511000)****Grades: 8, 9, 10, 11, 12** **Credit: one****Prerequisite: none**

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills - listening, speaking, reading and writing - with emphasis on the ability to communicate orally and in writing. Students begin to explore and study the POS themes of Personal and Family Life, School Life, Social Life, and Community Life. For middle school students, this credit becomes a part of the high school transcript, is included in the determination of the high school grade point average (GPA), and counts toward fulfilling the world languages requirement of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

**FRENCH 2 (512000)****Grades: 9, 10, 11, 12** **Credit: one****Prerequisite: Level 1 or equivalency test**

Students continue to develop proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. They learn to function in real-life situations using more complex sentences and language structures. They read material on familiar topics and produce short writing samples. Students continue to explore as they study the POS themes of Home Life, Student Life, Leisure Time, and Vacation and Travel.

**FRENCH 3 (513000)****Grades: 9, 10, 11, 12** **Credit: one****Prerequisite: Level 2 or equivalency test**

Students continue to develop and refine their proficiency in all four language skills - listening, speaking, reading and writing - with emphasis on the ability to interact orally and in writing. They communicate using more complex language structures on a variety of topics, moving from concrete to more abstract concepts. At this level, students comprehend the main ideas of the authentic materials that they read and hear and are able to identify significant details when the topics are familiar. Students gain a deeper understanding of the world around them while studying the POS themes of Rights and Responsibilities, Future Plans and Choices, Teen Culture, Environment, and Humanities.

**IB FRENCH I (514209)****FRENCH IB HIGHER LEVEL** **Grades: 11, 12** **Credit: one/weighted +1.0****Prerequisite: Three years of French or equivalency test and permission of instructor.**

In this course students continue their development of proficiency in listening, speaking, reading and writing French. Emphasis is placed on using these skills in realistic contexts utilizing authentic materials, to include recordings, films, newspapers and magazines, in addition to selected literary works. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course. IB French, Part 1, together with IB French, Part 2, prepares students to take the IB French higher level examination.

**IB FRENCH SL, II (515208)****FRENCH IB STANDARD LEVEL** **Grades: 11, 12** **Credit: one/weighted +1.0****Prerequisite: Four years of French or equivalency test and permission of instructor. IB French, Part 1 is preferred immediately prior to this course.**

IB French, Part 2 is the second segment of a two-year series that prepares students to take the IB French Exam. The development of all language skills--listening, speaking, reading, writing--continues, with emphasis on using the language in realistic contexts with authentic materials, to include films, recordings, newspapers and magazines. Selected literary works are included. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course. Students are required to take the standard level examination.

**IB FRENCH HL, II (515209)****FRENCH IB HIGHER LEVEL** **Grades: 12** **Credit: one/weighted +1.0****Prerequisite: Four years of French or equivalency test and permission of instructor. IB French part 1 is preferred immediately prior to this course.**

IB French, Part 2 is the second segment of a two-year series that prepares students to take the IB French Exam. The development of all language skills--listening, speaking, reading, writing--continues, with emphasis on using the language in realistic contexts with authentic materials, to include films, recordings, newspapers and magazines. Selected literary works are included. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course. Students are required to take the higher level examination.

**GERMAN 1 (521000)****Grades: 8, 9, 10, 11, 12****Credit: one****Prerequisite: none**

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills - listening, speaking, reading and writing - with emphasis on the ability to communicate orally and in writing. Students begin to explore and study the POS themes of Personal and Family Life, School Life, Social Life, and Community Life. For middle school students, this credit becomes a part of the high school transcript, is included in the determination of the high school grade point average (GPA), and counts toward fulfilling the world languages requirement of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

**GERMAN 2 (522000)****Grades: 9, 10, 11, 12****Credit: one****Prerequisite: Level 1 or equivalency test**

Students continue to develop proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. They learn to function in real-life situations using more complex sentences and language structures. They read material on familiar topics and produce short writing samples. Students continue to explore as they study the POS themes of Home Life, Student Life, Leisure Time, and Vacation and Travel.

**GERMAN 3 (523000)****Grades: 9, 10, 11, 12****Credit: one****Prerequisite: Level 2 or equivalency test**

Students continue to develop and refine their proficiency in all four language skills - listening, speaking, reading and writing - with emphasis on the ability to interact orally and in writing. They communicate using more complex language structures on a variety of topics, moving from concrete to more abstract concepts. At this level, students comprehend the main ideas of the authentic materials that they read and hear and are able to identify significant details when the topics are familiar. Students gain a deeper understanding of the world around them while studying the POS themes of Rights and Responsibilities, Future Plans and Choices, Teen Culture, Environment, and Humanities.

**IB GERMAN I (524209)****GERMAN IB HIGHER LEVEL****Grades: 11, 12****Credit: one/weighted +1.0****Prerequisite: Three years of German and equivalency test and permission of instructor**

Students continue to develop proficiency in speaking, listening, reading, and writing German. Emphasis is placed on using these skills in realistic contexts utilizing authentic materials, to include recordings, films, newspapers and magazines, in addition to selected literary works. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course. IB German, Part 1, together with IB German, Part 2, prepares students to take the IB German higher level examination.

**IB GERMAN SL, II (525208)****GERMAN IB STANDARD LEVEL****Grades: 11, 12****Credit: one/weighted +1.0****Prerequisite: Four years of German or equivalency test and permission of instructor. IB German, Part 1 is preferred immediately prior to this course.**

IB German, Part 2 is the second segment of a two-year series that prepares students to take the IB German Exam. The development of all language skills—listening, speaking reading, writing—continues, with emphasis on using the language in realistic contexts with authentic materials, to include films, recordings, newspapers and magazines. Selected literary works are included. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course. Students are required to take the standard level examination.

**IB GERMAN HL, II (525209)****GERMAN IB HIGHER LEVEL****Grades: 12****Credit: one/weighted +1.0****Prerequisite: Four years of German or equivalency test and permission of instructor. IB German, Part 1 is preferred immediately prior to this course.**

IB German, Part 2 is the second segment of a two-year series that prepares students to take the IB German Exam. The development of all language skills—listening, speaking reading, writing—continues, with emphasis on using the language in realistic contexts with authentic materials, to include films, recordings, newspapers and magazines. Selected literary works are included. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course. Students are required to take the higher level examination.

**LATIN 3 (533000)****Grades: 9, 10, 11, 12****Credit: one****Prerequisite: Latin 2 or equivalency test**

Students continue to develop and refine their reading skills through the study of Latin literature. Additional vocabulary, more complex language structures and syntax are emphasized in order to be able to read the writings of prose authors. Through translation and interpretation, students gain a greater understanding of the foundation of Western government and civilization.

**SPANISH 1 (551000)****Grades: 9, 10, 11, 12****Credit: one****Prerequisite: none**

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills - listening, speaking, reading and writing - with emphasis on the ability to communicate orally and in writing. Students begin to explore and study the POS themes of Personal and Family Life, School Life, Social Life, and Community Life. For middle school students, this credit becomes a part of the high school transcript, is included in the determination of the high school grade point average (GPA), and counts toward fulfilling the world languages requirements of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

**SPANISH 2 (552000)****Grades: 9, 10, 11, 12****Credit: one****Prerequisite: Level 1 or equivalency test**

Students continue to develop proficiency in all four language skills - listening, speaking, reading, and writing - with emphasis on the ability to communicate orally and in writing. They learn to function in real-life situations using more complex sentences and language structures. They read material on familiar topics and produce short writing samples. Students continue to explore as they study the POS themes of Home Life, Student Life, Leisure Time, and Vacation and Travel.

**SPANISH 3 (553000)****Grades: 9, 10, 11, 12****Credit: one****Prerequisite: Level 2 or equivalency test**

Students continue to develop and refine their proficiency in all four language skills - listening, speaking, reading and writing - with emphasis on the ability to interact orally and in writing. They communicate using more complex language structures on a variety of topics, moving from concrete to more abstract concepts. At this level, students comprehend the main ideas of the authentic materials that they read and hear and are able to identify significant details when the topics are familiar. Students gain a deeper understanding of the world around them while studying the POS themes of Rights and Responsibilities, Future Plans and Choices, Teen Culture, Environment, and Humanities.

**IB SPANISH I (554209)****SPANISH IB HIGHER LEVEL****Grades: 11, 12****Credit: one/weighted +1.0****Prerequisite: Three years of Spanish or equivalency test and permission of instructor**

In this course students continue their development of proficiency in listening, speaking, reading and writing Spanish. Emphasis is placed on using these skills in realistic contexts utilizing authentic materials; to include recordings, films, newspapers and magazines in addition to selected literary works. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course. IB Spanish, Part 1, together with IB Spanish, Part 2, prepares students to take the IB Spanish higher level examination.

**IB SPANISH SL, II (555208)****SPANISH IB STANDARD LEVEL****Grades: 11, 12****Credit: one/weighted +1.0****Prerequisite: Four years of Spanish or equivalency test and permission of instructor. IB Spanish, Part 1 is preferred immediately prior to this course.**

IB Spanish, Part 2, is the second segment of a two-year series that prepares students to take the IB Spanish Exam. The development of all language skills—listening, speaking, reading, writing—continues, with emphasis on using the language in realistic contexts with authentic materials, to include films, recordings, newspapers and magazines. Selected literary works are included. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course. Students are required to take the standard level examination.

**IB SPANISH HL, II (555209)****SPANISH IB HIGHER LEVEL****Grades: 12****Credit: one/weighted +1.0**

IB Spanish, Part 2, is the second segment of a two-year series that prepares students to take the IB Spanish Exam. The development of all language skills—listening, speaking, reading, writing—continues, with emphasis on using the language in realistic contexts with authentic materials, to include films, recordings, newspapers and magazines. Selected literary works are included. Examples and questions from past IB exams are used as learning tools at appropriate times throughout the course. Students are required to take the higher level examination.

**SPANISH FOR FLUENT SPEAKERS 1 (551100)****Grades: 9, 10, 11, 12****Credit: one****Prerequisite: Permission from instructor**

This course offers fluent speakers of Spanish the opportunity to strengthen their basic skills in reading and writing Spanish. The students learn about the Hispanic contributions to the English language and American culture. The students also study the major historical figures and events of Spanish-speaking countries. The course is conducted in Spanish and counts toward fulfilling the world languages requirement. Middle School: credit becomes a part of the high school transcript, is included in the determination of the high school grade point average (GPA), and counts toward fulfilling the world languages

requirements of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

#### **SPANISH FOR FLUENT SPEAKERS 2 (552100)**

**Grades: 9, 10, 11, 12**

**Credit: one**

**Prerequisite: Spanish for Fluent Speakers 1 or permission from instructor**

This course, designed for fluent speakers of Spanish, continues to emphasize the improvement of students' skills in speaking, reading, and writing in Spanish. Students read and critique contemporary short stories and make oral presentations. The writing and reading processes are emphasized to ensure growth in both skills. The students will also study various Hispanic personalities and historic events of Spanish-speaking countries. The course is conducted in Spanish. Middle School: credit becomes a part of the high school transcript, is included in the determination of the high school grade point average (GPA), and counts toward fulfilling the world languages requirements of the high school Advanced Studies diploma. It also counts toward the total number of credits required for graduation.

#### **SPANISH FOR FLUENT SPEAKERS 3 (553100)**

**Grades: 9, 10, 11, 12**

**Credit: one**

**Prerequisite: Spanish for Fluent Speakers 2 or permission from instructor**

This course, designed for speakers of Spanish, continues to emphasize the refinement of proficiency in reading, writing, and speaking Spanish. Students develop research skills through the reading and critiquing of literary works. The influence of Hispanic culture in contemporary American society is highlighted. The course is conducted in Spanish and counts toward fulfilling the world languages requirement of the high school Advanced Studies diploma.

#### **IB SPANISH FOR FLUENT SPEAKERS I (554109)**

##### **IB SPANISH A2 HIGHER LEVEL**

**Grades: 11, 12**

**Credit: one/weighted +1.0**

**Prerequisite: Spanish for Fluent Speakers 3 or the equivalent and permission of the instructor.**

In this course, fluent speakers of Spanish continue a focus on language and literature following the prescribed IB guidelines for Language A2. They further develop their creative and critical thinking abilities, increasing the skills and knowledge necessary to be contributing world citizens and life-long learners. IB Diploma candidates can qualify for the Bilingual IB Diploma upon successful completion of this course and the A2 Spanish exam. This course along with IB Spanish for Fluent Speakers, Part 2, prepares students to take the IB A2 higher level exam in Spanish.

#### **IB SPANISH FOR FLUENT SPEAKERS SL, II (555108)**

##### **IB SPANISH A2 STANDARD LEVEL**

**Grades: 12 Credit: one/weighted +1.0**

**Prerequisite: IB Spanish for Fluent Speakers, Part I**

This course is the second of a two-year series in the IB A2 program in Spanish. The IB A2 program gives students the opportunity to reach a high level of competence in a second language while at the same time learning to appreciate the range of issues generated by the study of language and culture. IB A2 Spanish is designed for students with a high level of competency in Spanish and continues with the study of the Topic Options and the Literary Text Options begun in the first year. The course also extends the personal dossier of work as required by IB. IB Diploma candidates may qualify for the Bilingual IB Diploma upon successful completion of this course and the IB exam. Students are required to take the standard level examination.

#### **IB SPANISH FOR FLUENT SPEAKERS HL, II (555109)**

##### **IB SPANISH A2 HIGHER LEVEL**

**Grades: 12**

**Credit: one/weighted +1.0**

**Prerequisite: IB Spanish for Fluent Speakers, Part I**

This course is the second of a two-year series in the IB A2 program in Spanish. The IB A2 program gives students the opportunity to reach a high level of competence in a second language while at the same time learning to appreciate the range of issues generated by the study of language and culture. IB A2 Spanish is designed for students with a high level of competency in Spanish and continues with the study of the Topic Options and the Literary Text Options begun in the first year. The course also extends the personal dossier of work as required by IB. IB Diploma candidates may qualify for the Bilingual IB Diploma upon successful completion of this course and the IB exam. Students are required to take the higher level examination.

## **SPECIAL EDUCATION**

#### **ALGEBRA 1 / PART 1 (313100)**

**Grades: 9, 10**

**Credit: one**

**Prerequisite: Middle School Mathematics**

Algebra 1 / Part 1 extends students' understanding of the real number system and its properties through the study of variables, expressions, equations, inequalities, and analysis of data derived from real-world phenomena. Topics include linear equations and inequalities, linear relations and functions, measures of central tendency (mean, median, mode), data analysis and middle school objectives as needed. Algebra 1 / Part 1 includes approximately sixty percent of the Virginia Standards of Learning for Algebra 1. Students who began 9th grade during the 2009-2010 school year or earlier must pass Algebra 1 to receive mathematics graduation credit for Algebra 1 / Part 1. This course

will not count towards a mathematics graduation credit for students who start 9th grade during the 2010-2011 school year or later.

#### **ADAPTED PHYSICAL EDUCATION (770011)**

**Grades: 9, 10, 11, 12**

**Credit: one**

**Prerequisite: Students must have an Individual Education Plan (IEP) for course enrollment.**

Adapted physical education is a developmental course for general education and/or special education students. The course serves students who are temporarily or permanently physically disabled or have deficiencies in motor coordination and/or physical fitness. The program is individualized and is directed toward improvement of deficiencies.

#### **BASIC SKILLS I-IV (788981)**

##### **LD**

**Grades: 9, 10, 11, 12**

**Credit: one**

This elective course is designed to provide support to a student in core curricular areas and to provide direct instruction in specific learning strategies, study skills, time management, organization, and coping skills. Time is also allotted to address individual areas of need as identified in a student's Individual Educational Plan (IEP). While students may receive assistance on core curricular assignments, the course is not designed to serve as a study hall. Students enrolled in the course receive the equivalent of one period of instruction each day and earn an elective credit. This course may be taught for an elective credit all four years or more, as appropriate. Students successfully completing two years of this course will satisfy the sequential elective requirement for the Standard and Modified Standard Diplomas. (Students may be awarded a half-credit upon completion of a full semester of placement in the Basic Skills course. Such a decision is made by the guidance counselor in conjunction with the special education department chair.)

#### **EDUCATION FOR EMPLOYMENT 1 (908361)**

**Grades: 9, 10, 11, 12**

**Credit: one**

This course is for students with disabilities. Students learn about the world of work and may participate in a work experience as part of the instructional program.

#### **EDUCATION FOR EMPLOYMENT 2 (908561)**

**Grades: 9, 10, 11, 12**

**Credit: one**

**Prerequisite: Education for Employment 1**

This course is for students with disabilities. Students learn about the world of work and may participate in a work experience as part of the instructional program. Students successfully completing this course will satisfy the sequential elective requirement for the Standard or Modified Standard diploma

#### **FOUNDATIONS OF BIOLOGY (781180)**

**Grades: 9, 10, 11, 12**

**Credit: one**

Foundations of Biology is a one-credit elective course designed to provide students with a fundamental understanding of living organisms and the processes of life. Emphasis is placed on scientific procedures and study of living things, cell parts and functions, plant classification and the functions of their various structures, animal classification, ecology, the human body, and the ways by which life forms reproduce, develop, and adapt to conditions in their environment. This course includes instruction on understanding the functioning and maintenance of the human body and Family Life Education. Parents have the option of withdrawing their children from any and all topics included in the Family Life Education portion. The course may be taught for elective credit for two years, as appropriate.

#### **FOUNDATIONS OF ENGLISH 9-12 (781380)**

**Grades: 9, 10, 11, 12**

**Credit: one**

Foundations of English, 9-12, is a one-credit elective course designed to provide students with the opportunities to achieve competencies in reading and writing, and to establish connections between classroom activities and post-secondary life experiences. Attention will be given to refining oral communication skills and written composition skills. Students will read a variety of literature, exploring literary themes in relation to real-life situations. This course may be taught for elective credit for four years or more, as appropriate.

#### **FOUNDATIONS OF WORLD HISTORY/GEOGRAPHY (781080)**

**Grades: 9, 10, 11, 12**

**Credit: one**

Foundations of World History/Geography is a one-credit elective course designed to provide students with a fundamental understanding of how past events influence the present day. Students explore the geography and history of Europe, Asia, Africa and Latin America through compare/contrast, inquiry/research, technology, reading comprehension and problem solving. This course may be taught for elective credit for two years, as appropriate.

#### **FOUNDATIONS OF UNITED STATES AND VIRGINIA HISTORY (781480)**

**Grades: 9, 10, 11, 12**

**Credit: one**

Foundations of United States and Virginia History is a one-credit elective course designed to provide students with a fundamental understanding of the political, economic, social and cultural growth of the United States, including the role of Virginia in this development. The material is taught through the following techniques:

compare/contrast, inquiry/research, technology, reading comprehension, and problem-solving. This course may be taught for elective credit for 2 years, as appropriate.

#### **DEVELOPMENTAL READING (118000)**

**Grades: 9, 10, 11, 12**

**Credit: one**

This elective course offers students an opportunity to improve their reading, thinking, and study skills. A wide range of materials, both fiction and nonfiction, is used to extend vocabulary and comprehension. Students apply reading strategies to content materials and textbooks are provided. Both fiction and nonfiction, are used to improve vocabulary and comprehension. Students concentrate on reading for meaning through a variety of literature and content materials. This elective course offers students opportunities for reading improvement. Instruction is based on diagnosis of each student's needs. Reading competencies addressed in the Virginia Standards of Learning are incorporated into the course objectives. (With approval, schools may offer an alternate plan for incorporating reading instruction into other courses.)

#### **PERSONAL AND FINANCIAL MATHEMATICS (312080)**

**Grades: 11, 12**

**Credit: one**

**Prerequisite:** One high school mathematics course

Students learn how to become wiser consumers in today's society. Course topics include personal money management, business procedures, transportation, budgeting, taxation, banking, and insurance. Calculators are used as a tool throughout the course. This course does not meet the mathematics graduation requirements for the Standard or Advanced Studies Diploma.

#### **LIFE SKILLS (798800)**

**Grades: 9, 10, 11, 12**

**Credit: one**

This comprehensive individualized program is designed to prepare students for a style of living that will require a minimum of dependence on family. The course is geared to meet the needs of the students as they prepare to enter employment and emphasizes developing interpersonal skills, following directions, working independently, completing a task, and developing self-advocacy and other community living skills.

#### **MUSIC SAMPLER (921415)**

**Level 1**

**Grades: 9, 10, 11, 12**

**Credit: one**

Students are provided the opportunity to sample a variety of musical experiences in a non-performing music class. Course content includes beginning guitar and class piano experience, as well as various modules designed to assist students in developing music reading and composing skills. Selected composers and musical compositions will be studied as a part of this course.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **MUSIC SAMPLER (921416)**

**Level 2**

**Grades: 9, 10, 11, 12**

**Credit: one**

Students continue to sample a variety of musical experiences in a non-performing music class. Course content includes guitar and class piano experience, as well as various modules designed to assist students in developing music reading and composing skills. Selected composers and musical compositions will be studied as a part of this course.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **OFFICE TECH SUPPORT SERVICES (980561)**

**Grades: 10, 11, 12**

**Credit: one**

This course is designed to train students in skills necessary for employment in an office, mailroom, warehouse, and printing department. Activities include printing, copying, filing, keyboarding, labeling, and mail-handling. These skills are learned by utilizing work stations and reinforced by contract work. Community-based sites include school offices, banks, recycling centers, community centers, and government offices. Students successfully completing two years of this course will satisfy the sequential elective requirement for the Standard or Modified Standard diploma.

#### **OFFICE TECH SUPPORT SERVICES (980562)**

**Grades: 10, 11, 12**

**Credit: two**

F/P Arts Spec Ed 2 Cr - This course is designed to train students in skills necessary for employment in an office, mailroom, warehouse, and printing department. Activities include printing, copying, filing, keyboarding, labeling, and mail-handling. These skills are learned by utilizing work stations and reinforced by contract work. Community-based sites include school offices, banks, recycling centers, community centers, and government offices. Students successfully completing two years of this course will satisfy the sequential elective requirement for the Standard or Modified Standard diploma.

#### **OFFICE TECH SUPPORT SERVICES (980563)**

**Grades: 10, 11, 12**

**Credit: three**

F/P Arts Spec Ed 3 Cr - This course is designed to train students in skills necessary for employment in an office, mailroom, warehouse, and printing department. Activities include printing, copying, filing, keyboarding, labeling, and mail-handling. These skills are learned by utilizing work stations and reinforced by contract work. Community-based sites include school offices, banks, recycling centers, community centers, and government offices. Students successfully completing two years of this course will satisfy the sequential elective requirement for the Standard or Modified Standard diploma.

#### **PERSONAL DEVELOPMENT (781580)**

**Grades: 9, 10, 11, 12**

**Credit: one**

This special education course is designed for students who need additional social/emotional support in order to progress in the general education curriculum because their social/emotional needs affect their school performance. Course topics include: understanding yourself, goal-setting, communication, building relationships, dealing with emotions, stress management, wellness, problem-solving, decision-making, self-advocacy, and career and transition. This course is appropriate for students who have documented social/emotional needs on their individualized education program (IEP).

#### **REINFORCING FOUNDATIONS (781800)**

**Grades: 9, 10, 11, 12**

**Credit: one**

Reinforcing Foundations is a one credit elective course designed to provide support to tenth, eleventh, and/or twelfth grade high school special education students who have not yet passed the eighth grade English: Reading/Literature and Research and Mathematics Standard of Learning tests and may be pursuing a modified standard diploma. This course will include skill work in reading comprehension, research, literature, computation, estimation, measurement, patterns, and basic algebra. This course may be taught for elective credit for three years, as appropriate. Students may be awarded a half-credit upon completion of a full semester of placement in Reinforcing Foundations. Such a decision is made by the school counselor in conjunction with the special education department chair.

#### **WORK AWARENESS AND TRANSITION (907161)**

**Grades: 9, 10, 11, 12**

**Credit: one**

This option is available to high school students receiving special education services. Students explore potential career options while developing/improving skills needed for success in employment such as interpersonal/co-worker relationships. Most students participate in community work experiences as well. Students successfully completing two years of this course will satisfy the sequential elective requirement for the Standard or Modified Standard diploma.

#### **WORK AWARENESS AND TRANSITION (907162)**

**Grades: 9, 10, 11, 12**

**Credit: two**

This option is available to high school students receiving special education services. Students explore potential career options while developing/improving skills needed for success in employment such as interpersonal/co-worker relationships. Most students participate in community work experiences as well. Students successfully completing two years of this course will satisfy the sequential elective requirement for the Standard or Modified Standard diploma.

#### **WORK AWARENESS AND TRANSITION (907163)**

**Grades: 9, 10, 11, 12**

**Credit: three**

This option is available to high school students receiving special education services. Students explore potential career options while developing/improving skills needed for success in employment such as interpersonal/co-worker relationships. Most students participate in community work experiences as well. Students successfully completing two years of this course will satisfy the sequential elective requirement for the Standard or Modified Standard diploma.

## **ACADEMY COURSES**

### **BUSINESS & INFORMATION TECHNOLOGY**

#### **A+ LEVEL 1 (862226)**

**Grades: 10, 11, 12**

**Credit: one**

**Prerequisite:** Computer related course or equivalent skill  
(Edison Academy--transportation may be provided)

Students enter the world of computer technology and gain practical experience in assembling a computer system, installing an operating system, troubleshooting computers and peripherals, and using system tools and diagnostic software. They develop skills in computer networking and resource sharing. In addition, students explore the relationships between internal and external computer components. Emphasis is placed on customer service skills and career exploration. Upon successful completion of the course, students may qualify to take the A+ certification exam. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. For more information, visit the Edison Academy web sites at: <http://www.fcps.edu/EdisonAcademy/>.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

**A+ LEVEL 2 (862326)****Grades: 10, 11, 12****Credit: one****Prerequisite: A+ Level 1****(Chantilly, Edison and Marshall Academies--transportation may be provided)**

Building on the foundation of A+ Level 1, this advanced course provides students with training in procedures for optimizing and troubleshooting concepts for computer systems and subsystems. Students explore wireless technologies (e.g., Bluetooth, Wi-Fi) and create and configure a network. Emphasis is placed on technical proficiency, skill-building, and workplace readiness. The course prepares students for postsecondary education and training, and a successful career in information technology. Upon successful completion of the course, students may qualify to take the A+ certification exam. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. For more information, visit the Chantilly, Edison, or Marshall Academy web sites at: <http://www.fcps.edu/ChantillyAcademy/> or <http://www.fcps.edu/EdisonAcademy/> or <http://www.fcps.edu/MarshallAcademy/>.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

**CISCO 1 PART A (854232)****Grades: 10, 11, 12****Credit: one-half****Prerequisite: Computer related course or equivalent skill****Corequisite: Cisco 1 Part B****(Chantilly Academy - transportation may be provided)**

This is part A of a full year course. Part A is taken in the fall semester. Students also register and take Cisco 1 part B in the spring semester. This course teaches students the skills needed to obtain entry-level home network installer jobs. It also helps students develop some of the skills needed to become network technicians, computer technicians, cable installers, and help-desk technicians. It provides a hands-on introduction to networking and the Internet, using tools and hardware commonly found in home and small business environments. Labs include PC installation, Internet connectivity, wireless connectivity, file and print sharing, and the installation of game consoles, scanners, and cameras. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

**CISCO 1 PART B (854332)****Grades: 10, 11, 12****Credit: one-half****Prerequisite: Cisco 1 Part A****Corequisite: Cisco 1 Part A****(Chantilly Academy - transportation may be provided)**

This is part B of a full year course. Part B is taken in the spring semester. Students also register and take Cisco 1 part A in the fall semester. This course prepares students for jobs as network technicians and help desk technicians. It provides a basic overview of routing and remote access, addressing, and security. It also familiarizes students with servers that provide e-mail services, Web space, and authenticated access. Students learn about the soft skills required for help desk and customer service positions, and the final chapter helps them prepare for the CCENT certification exam. Network monitoring and basic troubleshooting skills are taught in context. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

**CISCO 2 PART A (854432)****Grades: 11, 12****Credit: one-half****Prerequisite: Cisco 1 Part A and B****Corequisite: Cisco 2 Part B****(Chantilly Academy - transportation may be provided)**

This is part A of a full year course. Part A is taken in the fall semester. Students also register and take Cisco 2 part B in the spring semester. This course familiarizes students with the equipment applications and protocols installed in enterprise networks, with a

focus on switched networks, IP Telephony requirements, and security. It also introduces advanced routing protocols such as Enhanced Interior Gateway Routing Protocol (EIGRP) and Open Shortest Path First (OSPF) Protocol. Hands-on exercises, including configuration, installation, and troubleshooting, reinforce student learning. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

**CISCO 2 PART B (854532)****Grades: 11, 12****Credit: one-half****Prerequisite: Cisco 1 Part A and B****Corequisite: Cisco 2 Part A****(Chantilly Academy - transportation may be provided)**

This is part B of a full year course. Part B is taken in the spring semester. Students also register and take Cisco 2 part A in the fall semester. This course is designed for students interested in pursuing a career in the computer industry. Students will install, configure, upgrade, diagnose, troubleshoot and perform preventive maintenance on computer motherboards, processors, and memory chips. Other areas of study will include basic networking, software operation of Windows and DOS, memory management, and preventive maintenance. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

**COMPUTER SYSTEMS TECHNOLOGY-A+ LEVEL 1 (862232)****Grades: 10, 11, 12****Credit: one****Prerequisite: Computer related course or equivalent skill****Corequisite: Computer Systems Technology - A+ Level 2****(Chantilly, Edison and Marshall Academies--transportation may be provided)**

Students also register for Computer Systems Technology-A+ Level 2 in the Spring. Students enter the world of computer technology and gain practical experience in assembling a computer system, installing an operating system, troubleshooting computers and peripherals, and using system tools and diagnostic software. They develop skills in computer networking and resource sharing. In addition, students explore the relationships between internal and external computer components. Emphasis is placed on customer service skills and career exploration. Upon successful completion of the course, students may qualify to take the A+ certification exam. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

**COMPUTER SYSTEMS TECHNOLOGY-A+ LEVEL 2 (862332)****Grades: 10, 11, 12****Credit: one****Prerequisite: Computer related course or equivalent skill****Corequisite: Computer Systems Technology - A+ Level 1****(Chantilly, Edison and Marshall Academies--transportation may be provided)**

Students also register for Computer Systems Technology-A+ Level 1 in the Fall. Building on the foundation of Computer Systems Technology-A+ Level 1, this advanced course provides students with training in procedures for optimizing and troubleshooting concepts for computer systems and subsystems. Students explore wireless technologies (e.g., Bluetooth, Wi-Fi) and create and configure a network. Emphasis is placed on technical proficiency, skill-building, and workplace readiness. The course prepares students for postsecondary education and training, and a successful career in information technology. Upon successful completion of the course, students may qualify to take the A+ Certification exam. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education**

diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.

**IT SEMINAR (662126)**

Grades: 10, 11, 12

Credit: one

Prerequisite: IT Academy Course

Corequisite: IT Academy Course

Student enrolled in Lockheed Martin Internship only

Students will study IT workplace skills to include communication, office procedures, managing of information, financial functions, information and data processing, organization, and supervision. Students have the opportunity to complete workplace readiness assessments and IT related industry certifications in their field. In addition, students will participate in IT internships.

Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.

**NETWORK ADMINISTRATION 1 (665032)**

Grades: 10, 11, 12

Credit: one

Prerequisite: Computer related course, Algebra 1, or equivalent skill

(Chantilly, Edison and Marshall Academies-transportation may be provided)

Network Administration is a comprehensive, hands-on computer course in which students are taught basic networking skills using Windows and Microsoft Server. Topics covered throughout the year include network concepts, installation, configuration, management, and troubleshooting. Network Administration is designed to teach many aspects of computer support and network administration. Students learn networking concepts, from usage to components, and set up peer-to-peer network systems and client server networks. Students install and configure network cards and connect them to networks. Students learn how to install the operating systems, set up and manage accounts, load software, and set up and implement security plans. Upon successful completion of Network Administration, students may elect to obtain industry-recognized professional certification by taking the Microsoft Certified Professional (MCP) exams leading to Microsoft Certified Systems Administrator (MCSA), Microsoft Certified Desktop Support Technician (MCDST) and Microsoft Certified Systems Engineer (MCSE). The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. For more information, visit the academy web sites.

Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.

**NETWORK ADMINISTRATION 2 (665132)**

Grades: 10, 11

Credit: one

Prerequisite: Network Administration 1

(Chantilly, Edison and Marshall Academies-transportation may be provided)

Network Administration 2 is designed to continue teaching aspects of network administration—focusing on management and support of network users and systems. Time is spent discussing responsibilities of computer professionals, training end users, evaluating new technology, developing system policies, troubleshooting workstations, managing network services and protocols, and effectively using e-business communications. Students learn communications protocols, troubleshooting techniques for systems and client server networks, web site management and other advanced networking topics. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. For more information, visit the academy web sites.

Industry certification may be available as part of this course. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.

**ORACLE 1 (666026)**

Grades: 10, 11, 12

Credit: one

Prerequisite: Computer related course or equivalent skill

(Chantilly and Edison Academies-transportation may be provided)

This is an advanced information technology class that provides complete, hands-on computer training in data modeling and database application software with an emphasis on Oracle 9i. An example of an Oracle web site would be Amazon.com. Students taking this course will be prepared to take Oracle's Introduction to SQL (Structured Query

Language) programming exam. Preparation for careers is a major component of this class. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. For more information, visit the academy web sites.

Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.

**ORACLE 1 (666032)**

Grades: 10, 11, 12

Credit: one

Prerequisite: Computer related course or equivalent skill

(Chantilly and Edison Academies-transportation may be provided)

This is an advanced information technology class that provides complete, hands-on computer training in data modeling and database application software with an emphasis on Oracle 9i. An example of an Oracle web site would be Amazon.com. Students taking this course will be prepared to take Oracle's Introduction to SQL (Structured Query Language) programming exam. Preparation for careers is a major component of this class. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. For more information, visit the academy web sites.

Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.

**ORACLE 2 (666226)**

Grades: 11, 12

Credit: one

Prerequisite: Oracle 1

(Chantilly and Edison Academies-transportation may be provided)

This advanced information technology class offers supervised self-study opportunities for students interested in learning PL/SQL. Students who have previously passed the Oracle SQL exam and pass the PL/SQL exam will earn the Oracle Certified Associate (OCA) designation. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. For more information, visit the academy web sites.

Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.

**ORACLE 2 (666232)**

Grades: 11, 12

Credit: one

Prerequisite: Oracle 1

(Chantilly and Edison Academies-transportation may be provided)

This advanced information technology class offers supervised self-study opportunities for students interested in learning PL/SQL. Students who have previously passed the Oracle SQL exam and pass the PL/SQL exam will earn the Oracle Certified Associate (OCA) designation. The cooperative education (Business Cooperative Internship--679920) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. For more information, visit the academy web sites.

Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.

## FAMILY AND CONSUMER SCIENCES

**FASHION DESIGN 1 (828027)**

Grades: 11, 12

Credit: two

Prerequisite: Art 1 (912000), Fashion Marketing (814000), or Introduction To

Interior And Fashion Design (825432). A performance review may be provided.

(Fairfax and West Potomac Academies – transportation may be provided)

The Fashion Design 1 students will begin to explore an in-depth creative process and develop technical and presentation skills in the field of fashion design. The program will emphasize design concepts, sketching, draping, pattern making, and garment construction. These skills will enable the student to design and construct a project from

creative conception to completion. (Students interested in this course should also see Fashion Marketing 1 under Marketing.) For more information, visit the academy web sites.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **FASHION DESIGN 2 (828127)**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: Fashion Design 1 (848027) or Portfolio Review (examples of student work) and/or a performance review may be required.**

**(Fairfax and West Potomac Academies– transportation may be provided)**

The Fashion Design 2 curriculum will continue to foster and explore the creative process and develop advanced technical skills in the field of fashion design. The student will build on existing skills in the areas of design concepts, sketching, pattern making, and garment construction. These skills will enable the student to develop a fashion portfolio and to execute a fashion line from conception to completion. Students will begin to develop a level of professionalism that is standard in the industry. (Students interested in this course should also see Fashion Marketing 1 under Marketing.) For more information, visit the academy web sites.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **DANCE 4 (931927)**

**Grades: 12**

**Credit: two**

**Prerequisite: Dance 3 or successful audition.**

**(Selected sites or transportation may be provided to Fairfax Academy or West Potomac Academy)**

Dance 4 students are advanced level dancers who display a mastery of jazz, ballet and modern technique as well as performance excellence on stage and in the rehearsal studio. Students will deepen their understanding of choreographic techniques and have the opportunity to explore and develop their own voice in creating movement and critiquing the choreography of others. The course will focus on preparing the dancer for post-high school opportunities in the professional dance field including: professional company auditions, teaching and/or choreographing for a dance studio or theatre, and earning a degree in Dance Performance or Dance Education. For more information, visit the academy web sites.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **MUSIC AND COMPUTER TECHNOLOGY 1 (922527)**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: Advanced Music Theory or a music theory background (Interview may be required with the instructor.)**

**(Selected sites or transportation may be provided to Fairfax or West Potomac Academies)**

Students will explore the use of computers and other electronic technologies in music including: Musical Instrumental Digital Interface (MIDI), analog and digital synthesis, sequencing, acoustics, sound processing, and electronic musical composition using the latest music industry software and the internet. For more information, visit the academy web sites.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **MUSIC AND COMPUTER TECHNOLOGY 2 (922627)**

**Grades: 12**

**Credit: two**

**Prerequisite: Music and Computer Technology 1**

**(Selected site or transportation may be provided to Fairfax or West Potomac Academies)**

Students will expand on the use of computers and other electronic technologies developed in Music and Computer Technology I. They will build on skills developed in Music and Computer Technology I, including: Musical Instrumental Digital Interface (MIDI), analog and digital synthesis, sequencing, acoustics, sound processing, and electronic musical composition using the latest music industry software and the internet. For more information, visit the academy web sites.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **PROFESSIONAL MUSICAL THEATRE AND ACTOR'S STUDIO 1 (143027)**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: One of the following: Theatre Arts, Chorus, or Dance. Audition is also required of all applicants. (See Fairfax Academy website for audition information.)**

**(Selected sites or transportation provided to Fairfax Academy or West Potomac Academy.)**

Students will study advanced performance techniques specific to both classic and modern American musical theatre including acting, body/stage movement, and singing technique. Students will explore history of musical theatre as well as current topics related to auditioning and resume development. Students will participate in school-based performances that may be in conjunction with students from an advanced technical theatre course. For more information, visit the academy web sites.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **PROFESSIONAL MUSICAL THEATRE AND ACTOR'S STUDIO 2 (144027)**

**Grades: 12**

**Credit: two**

**Prerequisite: Professional Musical Theatre and Actor's Studio 1**

**(Selected sites or transportation provided to Fairfax Academy or West Potomac Academy.)**

Students will continue to study advanced performance techniques specific to both classic and modern American musical theatre including acting, body/stage movement, and singing technique. Students will continue to explore the history of musical theatre as well as current topics related to auditioning and resume development. Students will participate in school-based performances that may be in conjunction with students from an advanced technical theatre course. For more information, visit the academy web sites.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **PROFESSIONAL MUSICAL THEATRE AND ACTOR'S STUDIO 3 (145027)**

**Grades: 12**

**Credit: two**

**Prerequisite: Professional Musical Theatre and Actor's Studio 2 or teacher recommendation**

**(Selected sites or transportation provided to Fairfax Academy or West Potomac Academy.)**

Students will expand and deepen their knowledge and skills developed in levels 1 and 2. Outside class projects such as auditioning for community, high school, semi-professional and professional theatres, scene directing, reviewing performances in the area, and interviewing area professionals will be required. Also required will be in-class presentations on a topics of interest or an areas of expertise. For more information, visit the academy web sites.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **PROFESSIONAL MUSICAL THEATRE AND ACTOR'S STUDIO 1 (143027)**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: One of the following: Theatre Arts, Chorus, or Dance. Audition is also required of all applicants. (See Fairfax Academy website for audition information.)**

**(Selected sites or transportation provided to Fairfax Academy or West Potomac Academy.)**

Students will study advanced performance techniques specific to both classic and modern American musical theatre including acting, body/stage movement, and singing technique. Students will explore history of musical theatre as well as current topics related to auditioning and resume development. Students will participate in school-based performances that may be in conjunction with students from an advanced technical theatre course. For more information, visit the academy web sites.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **PROFESSIONAL MUSICAL THEATRE AND ACTOR'S STUDIO 2 (144027)**

**Grades: 12**

**Credit: two**

**Prerequisite: Professional Musical Theatre and Actor's Studio 1**

**(Selected sites or transportation provided to Fairfax Academy or West Potomac Academy.)**

Students will continue to study advanced performance techniques specific to both classic and modern American musical theatre including acting, body/stage movement, and singing technique. Students will continue to explore the history of musical theatre as well as current topics related to auditioning and resume development. Students will participate in school-based performances that may be in conjunction with students from an advanced technical theatre course. For more information, visit the academy web sites.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **PROFESSIONAL MUSICAL THEATRE AND ACTOR'S STUDIO 3 (145027)**

**Grades: 12**

**Credit: two**

**Prerequisite: Professional Musical Theatre and Actor's Studio 2 or teacher recommendation**

**(Selected sites or transportation provided to Fairfax Academy or West Potomac Academy.)**

Students will expand and deepen their knowledge and skills developed in levels 1 and 2. Outside class projects such as auditioning for community, high school, semi-professional and professional theatres, scene directing, reviewing performances in the area, and interviewing area professionals will be required. Also required will be in-class presentations on a topics of interest or an areas of expertise. For more information, visit the academy web sites.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

## **HEALTH & MEDICAL**

#### **ANIMAL SCIENCE 1 (831027)**

**Grades: 10, 11, 12**

**Credit: two**

**(Chantilly and Edison Academies - transportation may be provided)**

Students interested in studying animals and desiring experience in the care of a variety of animals will benefit from this course. The course is designed for students interested in a career in the animal health care field. Core curriculum includes animal anatomy, animal behavior, handling techniques, nutrition, disease pathology, sanitation, and disease control. Students gain hands-on experience working with laboratory animals. Students must purchase a lab apron and provide proof of current tetanus immunization for this course. For more information, visit the academy web sites.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will**

satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.

#### ANIMAL SCIENCE 2 (831127)

Grades: 11, 12

Credit: two

Prerequisite: Animal Science 1 (831027)

(Chantilly and Edison Academies - transportation may be provided)

Course content progresses from Animal Science 1 and includes more in-depth instruction and skill training necessary for a variety of high-tech animal science employment opportunities. Students continue to work with laboratory animals and have the opportunity to observe or participate at selected animal care facilities, such as veterinary clinics and grooming facilities, throughout the community. Students must purchase a lab apron and provide proof of current tetanus immunization for this course. CVA (Certified Veterinary Assistant) credential is available upon successful completion of internship and certification exam. For more information, visit the academy web sites.

Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.

#### DENTAL CAREERS 1 (832827)

Grades: 11, 12

Credit: two

(Chantilly, Falls Church, and West Potomac Academies- transportation may be provided)

Dental Careers 1 is the first-level course of a two-year dental assisting program. The course content focuses on introducing all dental-related careers as well as competencies necessary to manage a dental office. The curriculum includes head and neck anatomy, infection control, tooth charting, and instrumentation. The dental skills relevant to the curriculum are practiced in a classroom dental clinic. Lab coats or scrubs must be purchased for this class. For more information, visit the academy web site.

Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.

#### DENTAL CAREERS 2 (832927)

Grades: 12

Credit: two

Prerequisite: Dental Careers 1 (832827)

(Chantilly, Falls Church, and West Potomac Academies - transportation may be provided)

During the second year of this course, students refine advanced skills and learn more about the management of the office as well as the dental specialties of oral surgery, orthodontics, and periodontics. Students are provided the opportunity to experience an internship while participating in patient care at local dental offices and to earn a Dental Radiography Certification. Lab coats or scrubs must be purchased for this class. Students must purchase liability insurance and meet current dental health agency requirements to participate in clinical experiences. For more information, visit the academy web sites.

Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.

#### FIRE AND EMERGENCY MEDICAL SCIENCES 1 (833326)

Grades: 11, 12

Credit: one

Prerequisite: Exploring Health Sciences and Exploring the Language of Medicine are recommended but not required.

(Falls Church Academy - transportation may be provided)

This is part one (fall semester) of a two-part, full-year course. Students must also register for part two, Fire and Emergency Medical Sciences 2 for the spring semester. Fire and Emergency Medical Sciences prepares the student to enter the workforce or pursue further education in the field of Emergency Medical Services (EMS) and Fire Science. The principles and practices of emergency response and fire fighting will be explored under the direct supervision of a certified EMT-B instructor. The curriculum consists of planned learning experiences in the classroom, laboratory, and faculty supervised clinical settings. Students will have the opportunity to observe and interact with a variety of patients experiencing varying degrees of injury or disease that are carefully selected to provide appropriate clinical learning experiences. As preparation, students will be provided with ample lab practice to fully prepare them for the clinical experience and minimize risks. During the course of study, students will have the opportunity to earn the following five certifications: Healthcare Provider CPR, Emergency Medical Technician-Basic (EMT-B), and Hazardous Materials Response, Bloodborne Pathogens, and Community Emergency Response Team (CERT). Offsite clinical lab opportunities at Northern Virginia Community College, Medical Education Center (NVCC MEC), and Fairfax County Fire and Rescue Academy will be available to the students. Students must purchase uniforms and liability insurance and meet current health agency requirements to participate in clinical experiences. Validated credit may be an option with NVCC. For more information please visit the academy web sites.

Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.

#### FIRE AND EMERGENCY MEDICAL SCIENCES 2 (833426)

Grades: 11, 12

Credit: one

Prerequisite: Fire & Emergency Medical Sciences 1 (833326)

(Falls Church Academy - transportation may be provided)

This is part two (spring semester) of a two-part, full-year course. Students must also register for part one, Fire and Emergency Medical Sciences 1 for the fall semester. Fire and Emergency Medical Sciences prepares the student to enter the workforce or pursue further education in the field of Emergency Medical Services (EMS) and Fire Science. The principles and practices of emergency response and fire fighting will be explored under the direct supervision of a certified EMT-B instructor. The curriculum consists of planned learning experiences in the classroom, laboratory, and faculty supervised clinical settings. Students will have the opportunity to observe and interact with a variety of patients experiencing varying degrees of injury or disease that are carefully selected to provide appropriate clinical learning experiences. As preparation, students will be provided with ample lab practice to fully prepare them for the clinical experience and minimize risks. During the course of study, students will have the opportunity to earn the following five certifications: Healthcare Provider CPR, Emergency Medical Technician-Basic (EMT-B), and Hazardous Materials Response, Bloodborne Pathogens, and Community Emergency Response Team (CERT). Offsite clinical lab opportunities at Northern Virginia Community College, Medical Education Center (NVCC MEC), and Fairfax County Fire and Rescue Academy will be available to the students. Students must purchase uniforms and liability insurance and meet current health agency requirements to participate in clinical experiences. Validated credit may be an option with NVCC. For more information, please visit the academy web sites.

Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit. This course requires a student materials fee as listed in FCPS Notice 5922. Students are required to take the Standards of Learning End of Course Test.

#### MEDICAL ASSISTANT 1 (834527)

Grades: 11, 12

Credit: two

Prerequisite: Exploring Health Sciences and Exploring the Language of Medicine are strongly recommended.

(Chantilly, Falls Church, and West Potomac Academies-transportation may be provided)

Medical Assistant 1 allows students to develop entry-level skills and techniques to increase their knowledge base so that they may enter the health care field. Some of these skills and knowledge base areas include administrative and clinical medical assisting. Field trips to a variety of health care settings may be available. For more information visit the academy web sites.

Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma.

#### MEDICAL ASSISTANT 2 (834627)

Grades: 12

Credit: two

Prerequisite: Medical Assistant 1

(Chantilly, Falls Church, and West Potomac Academies-transportation may be provided)

Students further develop medical-assisting skills and techniques learned in Medical Assistant 1. They also learn management of patient records, cardiopulmonary resuscitation, care and use of equipment, collection and analysis of laboratory specimens, special diagnostic testing, basic diseases and disorders, basic knowledge of treatment and medication, and job preparedness skills. Advanced on-the-job clinical experience in a health care facility is a part of the course. Successful completion of the program may lead to employment in physicians' offices or clinics. Students must purchase uniforms and liability insurance and meet current health agency requirements to participate in clinical experiences. For more information visit the academy web sites.

Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit. This course requires a student materials fee as listed in FCPS Notice 5922. Students are required to take the Standards of Learning End of Course Test.

#### PHARMACY TECHNICIAN 1 (830526)

Grades: 11, 12

Credit: one

Prerequisite: Exploring Health Sciences and Exploring the Language of Medicine are recommended but not required.

(Chantilly, Falls Church, and West Potomac Academies - transportation may be provided)

This is part one (fall semester) of a two-part, full-year course. Students must also register for part two, Pharmacy Technician 2 for the spring semester. The Pharmacy Technician course incorporates both classroom and clinical pharmacy experiences. The student will be given the opportunity to meet state pharmacy technician competencies as well as be exposed to the larger arena of pharmacy careers. The course fulfills the requirements enabling the student to earn two certifications: Certified Pharmacy Technician from the

National Pharmacy Technician Certification Board and the Virginia Board of Pharmacy. For more information, visit the academy web sites.

**This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **PHARMACY TECHNICIAN 2 (830626)**

**Grades: 11, 12**

**Credit: one**

**Prerequisite: Pharmacy Technician 1**

**(Chantilly, Falls Church, and West Potomac Academies-transportation may be provided)**

This is part two (spring semester) of a two-part, full-year course. Students must also register for part one, Pharmacy Technician 1 for the fall semester. The Pharmacy Technician course incorporates both classroom and clinical pharmacy experiences. The student will be given the opportunity to meet state pharmacy technician competencies as well as be exposed to the larger arena of pharmacy careers. The course fulfills the requirements enabling the student to earn two certifications: Certified Pharmacy Technician from the National Pharmacy Technician Certification Board and the Virginia Board of Pharmacy. Students must purchase lab coats and liability insurance and meet current health agency requirements to participate in clinical experiences. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit. This course requires a student materials fee as listed in FCPS Notice 5922. Students are required to take the Standards of Learning End of Course Test.**

#### **PHYSICAL THERAPY/OCCUPATIONAL THERAPY 1 (836527)**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: Biology 1, Exploring Health Sciences and Exploring the Language of Medicine are recommended but not required.**

**(West Potomac Academy – transportation may be provided)**

This course is designed to provide an introduction to the professions of physical and occupational therapy. Students will explore the principles and practices of therapists in the health care industry and may participate in a clinical experience under the direct supervision of a licensed physical and/or occupational therapist. Clinical skills in the areas of physical therapy and occupational therapy will enable students to gain experience in rehabilitative care, which is practiced throughout the continuum of care and across the lifespan of individuals. After successful completion of this course, students will be prepared for employment as a rehabilitation technician or students may seek higher education for specific degrees in a variety of fields such as physical therapy, occupational therapy, speech therapy, sports medicine, athletic training, chiropractic medicine, biology, or exercise physiology. Students must purchase scrubs and liability insurance and meet current health agency requirements to participate in clinical experiences. For more information, visit the academy web sites.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **PHYSICAL THERAPY/OCCUPATIONAL THERAPY 2 (836627)**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: Physical Therapy/Occupational Therapy 1 (836527)**

**(West Potomac Academy – transportation may be provided)**

Physical Therapy/Occupational Therapy 2 provides a more in-depth study of the topics covered in the first-level course with emphasis upon individual interests and strengths. Students will be able to select and participate in a clinical experience of their choice from a wide range of clinical settings serving diverse patient populations. The course work will focus on the advancement of problem-solving skills, hands-on techniques, and interpersonal skills with an introduction to clinical research. There will be a greater emphasis on musculoskeletal anatomy during the first two quarters of this course. This course is most appropriate for students anticipating employment or further studies in physical therapy, occupational therapy, or other related healthcare careers. Students must purchase scrubs and liability insurance and meet current health agency requirements to participate in clinical experiences. For more information, visit the academy web sites.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **PRACTICAL NURSING 1 (835726)**

**Grades: 12**

**Credit: one**

**Prerequisite: Biology 1 and Algebra 1, Exploring Health Sciences and Exploring the Language of Medicine are recommended but not required.**

**(Falls Church Academy - transportation may be provided)**

This is part one (fall semester) of a two-part, full-year course. Students must also register for part two, Practical Nursing 2 for the spring semester. This course offers preclinical nursing instruction during the student's senior year of high school. Foundations of nursing including communication, anatomy and physiology, and medical math, are the main units of focus. Competency-based instruction provides students with the skills needed to provide basic bedside nursing care used for hospitalized, nursing home, and homebound patients. Following successful completion of Practical Nursing 1 and 2, students electing to participate in the summer clinical are eligible to take the Certified Nursing Assistant

(CNA) exam. Classes are held at Falls Church High School while community healthcare agencies serve as sites for the practical application of the learned competencies. Students must purchase uniforms and liability insurance and meet current health agency requirements to participate in clinical experiences. Eligibility for acceptance into nursing program includes strong algebra and biology grades, attendance, and student statement/essay. Successful completion of the Practical Nursing 1 and 2 course allows students to take a nine-month, full-time postgraduate clinical internship program. The postgraduate clinical internship curriculum enables students to demonstrate advanced nursing competencies as well as gain the knowledge required for state licensure as a licensed practical nurse (LPN). For more information, visit the academy web sites.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **PRACTICAL NURSING 2 (835826)**

**Grades: 12**

**Credit: one**

**Prerequisite: PRACTICAL NURSING 1 (835726)**

**(Falls Church Academy - transportation may be provided)**

This is part two (spring semester) of a two-part, full-year course. Students must also register for part one, Practical Nursing 1 for the fall semester. This course offers preclinical nursing instruction during the student's senior year of high school. Foundations of nursing including communication, anatomy and physiology, and introduction to pharmacology, are the main units of focus. Competency-based instruction provides students with the skills needed to provide basic bedside nursing care used for hospitalized, nursing home, and homebound patients. Following successful completion of Practical Nursing 1 and 2, students electing to participate in the summer clinical are eligible to take the Certified Nursing Assistant (CNA) exam. Classes are held at Falls Church High School while community healthcare agencies serve as sites for the practical application of the learned competencies. Students must purchase uniforms and liability insurance and meet current health agency requirements to participate in clinical experiences. Successful completion of the Practical Nursing 1 and 2 course allows students to take a nine-month, full-time postgraduate clinical internship program. The postgraduate clinical internship curriculum enables students to demonstrate advanced nursing competencies as well as gain the knowledge required for state licensure as a licensed practical nurse (LPN). For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit. This course requires a student materials fee as listed in FCPS Notice 5922. Students are required to take the Standards of Learning End of Course Test.**

#### **HOTEL MARKETING 1 (816026)**

**Grades: 9, 10, 11, 12**

**Credit: one**

**(Chantilly, Edison and Marshall Academies and select sites - transportation may be provided)**

Hotel Marketing 1 actively investigates careers in the hospitality and tourism career cluster including hotel and restaurant management, event and wedding planning, tourism, resort and golf course management, and the cruise ship industry. Students become familiar with concepts in marketing, convention, banquet and meeting services, catering services and event planning, venue management, guest services and retention, food and beverage operation, travel and transportation, and social and internet marketing. The Hotel Marketing programs are administered through Chantilly, Edison and Marshall Academies. Students are active members of DECA, an association of marketing students. Program activities include: field trips, guest speakers, DECA competitive events, and projects. The cooperative education (Marketing Cooperative Internship) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. The one-credit Hotel Marketing course is offered at Marshall and Chantilly Academies and selected high schools. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

### **MARKETING**

#### **HOTEL MARKETING 1 (816027)**

**Grades: 9, 10, 11, 12**

**Credit: two**

**(Chantilly, Edison and Marshall Academies - transportation may be provided)**

Hotel Marketing 1 actively investigates careers in the hospitality and tourism career cluster including hotel and restaurant management, event and wedding planning, tourism, resort and golf course management and the cruise ship industry. Students become familiar with concepts in marketing, convention, banquet and meeting services, catering services and event planning, venue management, guest services and retention, food and beverage operation, travel and transportation, and social and internet marketing. In the

two credit option, students will have the opportunity to attend classes at participating hotels. Students are required to wear uniforms and follow the hotel dress code. Students are active members of DECA, an association of marketing students. Program activities include: field trips, guest speakers, DECA competitive events, and projects. The cooperative education (Marketing Cooperative Internship) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit. Students successfully completing this course may be eligible for articulated credit with approved colleges or universities. For more information please visit: <http://www.fcps.edu/DIS/OCTE/main/articulation.htm>.**

#### **HOTEL MARKETING 2 (816227)**

**Grades: 12**

**Credit: two**

**Prerequisite: Hospitality Marketing 1 (816026 or 816027)**

**(Chantilly, Edison, and Marshall Academies--transportation may be provided)**

This advanced course enables students to continue to develop and grow their skills in the hospitality industry. Students will intern in a hotel, work with hotel staff and guests to develop resume-building skills in a variety of departments. Three career clusters will be explored: Business Management & Administration, Marketing, and Hospitality & Tourism. Concentration of course work and internships will be in marketing techniques, supervisory skills, management reporting, overall operations and cost controls, specific department operations, and professional development. While attending classes at participating hotels, students are required to wear uniforms and follow the hotel dress code. While enrolled in the course, the student is an active member of DECA, an association of marketing students. Field trips, guest speakers, and DECA competitive events are used to enhance the course work. The cooperative education (Marketing Cooperative Internship) method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. The program is offered at Marshall, Chantilly and Edison Academies. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

### **TRADE AND INDUSTRIAL**

#### **AUTOMOTIVE COLLISION SERVICE 1 (867627)**

**Grades: 11, 12**

**Credit: two**

**(Chantilly, Edison, and Marshall Academies - transportation may be provided)**

Students are introduced to skill sets derived from industry standards in the auto body repair and restoration industry. The curriculum and laboratory activities are defined by I-CAR and include panel repairs, painting, frame and uni-body construction, steering, suspension, detailing, and welding. In addition, students are exposed to the theoretical and practical aspects of this career. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **AUTOMOTIVE COLLISION SERVICE 2 (867727)**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: Auto Collision Service 1 (867627)**

**(Chantilly, Edison, and Marshall Academies - transportation may be provided)**

Students will refine existing skills and develop specific skills necessary to repair late-model damaged vehicles to their original condition. The curriculum and laboratory practices defined by I-CAR include the following: refinishing, metal working, welding, frame-strengthening systems, uni-body measuring principles, structural repair, steering, suspension, mechanical, and electrical repairs. As an option, many students will have an opportunity to participate in internship experiences. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **AUTOMOTIVE TECHNOLOGY 1 (850627)**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: Automotive Servicing (871026) (where offered at base high schools); Algebra 1**

**(This course is offered at selected high schools and may be available to 10th graders. This course is also offered at Chantilly, Edison, and Marshall Academies where transportation may be provided.)**

Students will study and define the eight major systems of the automobile, related tools and equipment, and the automotive industry. An emphasis will be placed on diagnosing systems, developing troubleshooting skills, and the safe use of laboratory equipment. Curriculum is developed from the National Automotive Technicians Education Foundation (NATEF) task lists. Major topics include engine performance, brakes, electrical and electronic systems, and suspension and steering systems. This course may be offered for college credit. In addition, students will be tested on NATEF criteria. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit. This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **AUTOMOTIVE TECHNOLOGY 2 (850727)**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: Automotive Technology 1 (850627)**

**(Selected sites or transportation may be provided to Chantilly, Edison, and Marshall Academies)**

Students will perform technical operations using digital diagnostic equipment, hand scanners, multi-meters, and a computerized data information system during laboratory procedures that are defined by the National Automotive Technicians Education Foundation (NATEF). Major topics include engine performance, brakes, electrical and electronic systems, and suspension and steering systems. In addition, students will be tested on NATEF criteria. This course may be offered for college credit. As an option, many students will have an opportunity to participate in local internship experiences. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit. This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **AUTOMOTIVE TECHNOLOGY 3 (850827)**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: Automotive Technology 2 (850727)**

**(Selected sites or transportation may be provided to Chantilly, Edison, and Marshall Academies)**

Students will diagnose, troubleshoot, and install components and parts, while focusing on the standards established by the National Automotive Technicians Education Foundation (NATEF). Opportunities will be provided to enhance skills and competencies. An emphasis is placed on problem-solving issues related to technological enhancements in the automotive industry. This course may be offered for college credit. As an option, many students will have an opportunity to participate in local internship experiences. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit. This course requires a student materials fee as listed in FCPS Notice 5922.**

#### **CONSTRUCTION TECH 1- SPRING VILLAGE RESIDENTIAL CONSTRUCTION SITE (851562)**

**Grades: 11, 12**

**Credit: two**

**Spring Village Residential Construction Site (transportation may be provided)**

Through a partnership with the Foundation of Applied Technical Education, Inc. (FATE), students have an opportunity to build a single-family home in Springfield, Virginia. This specialized course curriculum is developed by the National Association of Home Builders (NAHB). All aspects of new home construction will be addressed during the course of the year. Students will work directly on concrete installation, framing, ceramic tile, kitchen installation, bathroom installations, hardwood floors, electrical, plumbing, HVAC, landscape, and other areas of new home construction. Theoretical and physical aspects of the construction industry are explored in order for students to establish career goals in the industry.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.**

**CONSTRUCTION TECH 2 - SPRING VILLAGE RESIDENTIAL  
CONSTRUCTION SITE (851662)**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: Construction Technologies 1**

**Spring Village Residential Construction Site (transportation may be provided)**

Through a partnership with the Foundation of Applied Technical Education, Inc. (FATE), students have an opportunity to build a single-family home in Springfield, Virginia. This specialized course curriculum is developed by the National Association of Home Builders (NAHB). All aspects of new home construction will be addressed during the course of the year. Students will work directly on concrete installation, framing, ceramic tile, kitchen installation, bathroom installations, hardwood floors, electrical, plumbing, HVAC, landscape, and other areas of new home construction. Theoretical and physical aspects of the construction industry are explored in order for students to establish career goals in the industry.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit. This course requires a student materials fee as listed in FCPS Notice 5922.**

**COSMETOLOGY 1 (852727)**

**Grades: 11, 12**

**Credit: two**

**(Selected sites or transportation may be provided to Hayfield Secondary School, Chantilly, Edison, and Marshall Academies)**

Students learn about the characteristics of hair, product selection, and basic elements that determine hair growth, health, and appearance. In addition to up-to-date skills in hair styling and cutting, permanent waving, coloring, scalp and facial treatment, and manicuring, students will begin licensure requirements determined by the Virginia Board of Cosmetology. For more information, visit the academy web sites.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.**

**COSMETOLOGY 2 (852827)**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: Cosmetology 1 (852727)**

**(Selected sites or transportation may be provided to Hayfield Secondary School, Chantilly, Edison, and Marshall Academies)**

Students use a laboratory setting for the study of skin, hair, nails and cosmetic chemistry. Through laboratory experiences, students will develop advanced skills and knowledge in all phases of salon industry. Students complete the required cosmetology competencies determined by the State Board of Cosmetology in order to successfully pass the Virginia Cosmetology exam to qualify as a licensed cosmetologist. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit. This course requires a student materials fee as listed in FCPS Notice 5922.**

**COSMETOLOGY 3 (852927)**

**Grades: 12**

**Credit: two**

**Prerequisite: Cosmetology 2 (852827)**

**Corequisite: Contact the instructor at the school site prior to registering any student for this course.**

**(Selected sites or transportation may be provided to Hayfield Secondary School, Chantilly, Edison, and Marshall Academies)**

Students will focus on management and supervisory skills in their area of concentration. Opportunities will be provided to enhance any skills and competencies not mastered in the second year of instruction. Student internship experiences are an option for this course. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit. This course requires a student materials fee as listed in FCPS Notice 5922.**

**CRIMINAL JUSTICE 1 (870226)**

**Grades: 10, 11, 12**

**Credit: one**

**(Transportation may be provided to Chantilly, Falls Church, Marshall, and West Potomac Academies)**

This course is designed for students who are considering a career in criminal justice. The course prepares students for career opportunities within the criminal justice system as well as entrance into institutions of higher learning. Specific areas of training will be provided in criminal law and investigation, security training, communications, emergency response, crimes, search and seizures, arrests, crime prevention, court procedure, and

police operations. The program is structured to give students a strong academic background with the skills and knowledge necessary to meet the needs of a career in any of the cited fields. In addition, experts from various agencies provide in-depth information and experiences. For more information, visit the academy web sites.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course in conjunction with another one credit course within the same program area will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.**

**CRIMINAL JUSTICE 2 (870327)**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: Criminal Justice 1**

**(Selected sites or transportation may be provided to Chantilly, Falls Church, Marshall, and West Potomac Academies)**

This course is an in-depth study of crime in America, United States' courts in action, and law enforcement efforts to deal with crime. The course will look into victimization, due process, and Constitutional laws affecting law enforcement as well as a review of sentencing offenders, parole, prison rehabilitation, and corrections of the 1990s. Included will be a view of other employment careers in private and mechanical security systems as well as local, state, and federal law enforcement. A major component of level 2 will include the work-experience component, i.e., shadowing, mentorship, etc. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit. This course requires a student materials fee as listed in FCPS Notice 5922.**

**ELECTRICAL CONSTRUCTION AND ENGINEERING 1 (853327)**

**Grades: 11, 12**

**Credit: two**

**(Edison Academy - transportation may be provided)**

Laboratory work and academic studies include AC/DC circuit analysis, designing and construction switching circuits, fixture specifications and installations, computing and fabricating residential electrical services, and other wiring exercises as required by residential wiring systems. Theory and the national electric code are taught as they apply to the lesson topic. Students learn to install, relocate, troubleshoot, and repair copper twisted pair network cabling. This course may be offered for college credit. For more information, visit the academy web sites.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.**

**ELECTRICAL CONSTRUCTION AND ENGINEERING 2 (853427)**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: Electrical Construction and Engineering 1 (853327)**

**(Edison Academy - transportation may be provided)**

Further study of electrical wiring and power distribution techniques is offered, including direct- and alternating-current machines, such as motors and generators, and magnetic controls and transformers in both single- and two- or three-phase systems. National Electrical Codes, as well as state and power company policies pertaining to electrical power distribution, are studied. Major appliance repair is also taught. Student internship experiences are an option for this course. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit. This course requires a student materials fee as listed in FCPS Notice 5922.**

**HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION 1 (850327)**

**Grades: 11, 12**

**Credit: two**

**(Edison Academy - transportation may be provided)**

Students learn how to install and maintain special environmental systems for people, products, and perishables essential to today's lifestyles. Through laboratory experiences, students will utilize digital meters, gauges, testing instruments, and specialized tools. These instruments will be used to control the environment in any enclosed area. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.**

**HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION 2 (850427)**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: Heating, Ventilation, Air Conditioning, and Refrigeration 1 (850327) (Edison Academy - transportation may be provided)**

Students in level 2 will utilize the foundations learned in the first level to design, troubleshoot and correct problems in HVAC systems. Through engineering programs, simulations, and practices, students will calculate loads for buildings and specialized environments. Students will learn to write programs by using programmable logic controls (PLCs) and smart house programs for automating building energy management systems. This course may be offered for college credit. Student internship experiences are an option for this course. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit. This course requires a student materials fee as listed in FCPS Notice 5922.**

**LANDSCAPE ARCHITECTURE AND TURF MANAGEMENT 1 (803627)**

**Principles of Landscaping 1**

**Grades: 11, 12**

**Credit: two**

**(Edison Academy - transportation may be provided)**

In this course, students develop the necessary knowledge, skills, and habits for employment and advancement in areas such as landscape design, landscape construction, landscape maintenance, turf grass installation, and turf grass management. Students work in the areas of sketching and drawing, analyzing a landscape site, designing for function and aesthetics, identifying and selecting landscape plants, purchasing and installing plants, and maintaining the landscape by watering, fertilizing, mulching, pruning, and controlling pests. This class is both classroom instruction as well as field work.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma.**

**LANDSCAPE ARCHITECTURE AND TURF MANAGEMENT 2 (805127)**

**Principles of Landscaping 2**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: Landscape Architecture and Turf Management 1 (803627)**

**(Edison Academy - transportation may be provided)**

In this course, students continue to develop the necessary knowledge, skills, and habits for employment and advancement in areas such as landscape design, landscape construction, landscape maintenance, turf grass installation, and turf grass management. Students work in the areas of sketching and drawing, analyzing a landscape site, designing for function and aesthetics, identifying and selecting landscape plants, purchasing and installing plants, and maintaining the landscape by watering, fertilizing, mulching, pruning, and controlling pests. This class is both classroom instruction as well as field work.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

**PROFESSIONAL GRAPHICS STUDIO 1 (866027)**

**Grades: 11, 12**

**Credit: two**

**(Fairfax and West Potomac Academies - transportation may be provided)**

This program provides students with the knowledge, skills and experience needed to prepare for postsecondary education in the visual communication fields of graphic design, multimedia, animation, and Web page design or for entry-level employment in this industry. This program educates students in traditional and computer-based design concepts and technical skills necessary for the profession. Students will use advanced professional software products, animate characters and objects, and create web pages incorporating movement, sound, text and graphics while utilizing new media software. Exploration of advanced production processes including emphasis on multimedia, printing, screen-printing, DVD development, and web media will be taught. For more information, visit the academy web sites.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. This course requires a student materials fee as listed in FCPS Notice 5922.**

**PROFESSIONAL GRAPHICS STUDIO 2 (866127)**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: Professional Graphics Studio 1 (866027)**

**(Fairfax and West Potomac Academies - transportation may be provided)**

Building on the skills taught in Professional Graphic Studio 1, second year students expand their skills with opportunities to work on real projects through a partnership with FATE (Foundation of Applied Technical Education, Inc.); a school-based enterprise, DIGS (Digital Imaging Graphic Studio); and, preparation for National Occupational Competency Testing Institute (NOCTI) exam. As an option, internship opportunities with

local high-tech companies are available. This advanced-level class provides students with the opportunity to further develop the knowledge, skills and experience needed to prepare for postsecondary education in the visual communication fields or for entry-level employment in this industry. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit. This course requires a student materials fee as listed in FCPS Notice 5922.**

**PROFESSIONAL TELEVISION PRODUCTION 1 (868827)**

**Grades: 11, 12**

**Credit: two**

**(Fairfax and West Potomac Academies - transportation may be provided)**

This curriculum is designed to train students for an entry-level position as a production assistant in the television and film production industries. Only state-of-the-art, professional video equipment is used by the students in this class. Students will learn to operate professional video cameras and field equipment for productions outside of the classroom, and professional studio cameras, audio equipment, special effect generators, and character generators for use in the fully outfitted studio. With parental permission, equipment may be checked out and used for on-location shoots. Students learn postproduction skills on cutting edge non-linear editing equipment, and finalize their projects to DVD. All student programming is broadcast on the FCPS cable television show, Focal Point. Toward the end of the first year, students may be presented with internship and professional work opportunities. For more information, visit the academy web sites.

**Industry certification may be available as part of this course. Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma. Successful completion of this course in conjunction with a corresponding industry certification may qualify for a student selected verified credit.**

**PROFESSIONAL TELEVISION PRODUCTION 2 (868927)**

**Grades: 11, 12**

**Credit: two**

**Prerequisite: Professional Television Production 1 (868827)**

**(Fairfax and West Potomac Academies - transportation may be provided)**

Students continue to gain skills and hands-on experience operating professional television production equipment in the field and studio as described in Television Production 1. All students are expected to take advantage of numerous internship opportunities either with the production company operated by the Fairfax Academy studio or with private production companies who seek interns. New learning opportunities include the ability to specialize in any of several dozen areas of interest with regards to preproduction, production, and postproduction. Extensive guidance is offered to students seeking postsecondary educational opportunities. For more information, visit the academy web sites.

**Students successfully completing this course may be eligible to earn a Career and Technical Education diploma seal. Students successfully completing this course will satisfy the sequential elective requirement for the standard or modified standard diploma.**