

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 ninth grade for the first time.

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 in grades 7-12 receive credit toward graduation for high school courses taken 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 Diploma: 22 Units of Credit

Standard Diploma Course Requirements (8 VAC 20-131-50.B)		
Discipline Area	Standard Credit	Verified Credit Effective for Ninth Graders in 2003-04 and beyond
English	4	2
Mathematics ¹	3	1
Laboratory Science ^{2, 6}	3	1
History and Social Sciences ^{3, 6}	4	1
Health and Physical Education	2	
Fine Arts or Career and Technical Ed	1	
Electives ⁴	5	
Student Selected Test ⁵		1
Total Credits	22	6: 2 English; 1 mathematics; 1 science; 1 history/social science; 1 student selected

¹ 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.

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

³ 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.

⁴ Courses to satisfy this requirement shall include at least two year long sequential electives as required by the standards of quality..

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

⁶ Students who complete a career and technical [education] program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association or 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 (1) the student selected verified credit and (2) either a science or history or social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the Board of Education as an additional test to verify student achievement.

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 ninth grade for the first time.

To graduate from high school, students shall meet the minimum requirements for the advanced studies diploma 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 in grades 7-12 receive credit toward graduation for high school courses taken 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: 24 Units of Credit

Advanced Studies Diploma Course Requirements (8VAC 20-131-50.C)		
Subject Area	Standard Credits	Verified Credits
English	4	2
Mathematics ¹	4	2
Laboratory Science ²	4	2
History and Social Science ³	4	2
Foreign Languages ⁴	3	
Health and Physical Education	2	
Fine Arts or Career and Technical Ed	1	
Electives	2	
Student Selected Test ⁵		1
Total Credits	24	9: 2 English; 2 mathematics; 2 science; 2 history/social science; 1 student selected

¹ Courses completed to satisfy this requirement shall be at or above the level of algebra and 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 may approve additional courses to satisfy this requirement.

² 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 of Education may approve additional courses to satisfy this requirement.

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

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

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

MODIFIED STANDARD DIPLOMA
20 CREDIT DIPLOMA REQUIREMENT FOR GRADUATION

Effective For Those Students Entering 9th Grade For The First Time In 2000-2001 And After

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 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 anytime after the student’s eighth grade year. There are no verified credit requirements for the modified standard diploma. **Beginning with the 9th grade class of 2000-01, students pursuing the modified standard diploma are required to meet literacy and numeracy requirements on the 8th grade English reading and mathematics Standards of Learning (SOL) tests.** Students may substitute a higher level high school SOL test for the 8th grade SOL tests in English reading and mathematics or other substitute tests approved by the Virginia Board of Education.

A student who has chosen to pursue a modified standard Diploma shall also be allowed to pursue the standard or advanced studies diploma at any time throughout the high school career. The student may not be excluded from courses and tests required to earn a standard or advanced studies diploma.

Modified Standard Diploma: 20 Units of Credit

Modified Standard Diploma Course Requirements (8 VAC 20-131-50.D)	
Discipline	Standard Credits
English	4
Mathematics ¹	3
Science ²	2
History and Social Science ³	2
Health and Physical Education	2
Fine or Practical Arts	1
Electives ⁴	6
Total Credits	20

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

² 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 of Education.

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

⁴ Courses to satisfy this requirement shall include a 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 age, race, color, sex, religion, national origin, marital status, or 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 (located at 10640 Page Avenue Suite 400, Fairfax Virginia 22030, 703-246-3632) regarding access to facilities; Office of Equity and Compliance (571-423-3050 or TTY 703-280-9833), regarding equal employment opportunity, discrimination, and sexual harassment issues; Office of Monitoring and Compliance (571-423-4210), 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

- The Governor's Seal shall be awarded to students who complete the requirements for an Advanced Studies diploma with an average grade of "B" or better and successfully complete at least one Advanced Placement course (AP), International Baccalaureate (IB), or one college-level course for credit. NOTE: New requirements for this seal went into effect with the ninth-grade class of 2006-07 and beyond. The requirements, which were adopted in 2000 for the ninth-grade classes of 2001 through 2005, as stated here, will remain effect for the graduating classes of 2007, 2008, and 2009.
- Students who complete the requirements for a standard diploma or advanced studies diploma with an average grade of "A" shall receive a **Board of Education Seal** on the diploma.
- The **Board of Education's Career and Technical Education Seal** will be awarded to students who earn a standard or advanced studies diploma and complete a prescribed sequence of courses in a career and technical education concentration or specialization that they choose and maintain a "B" or better average in those courses; or (i) 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 (ii) acquire a professional license in that career and technical education field from the Commonwealth of Virginia.
- The **Board of Education's Seal of Advanced Mathematics and Technology** will be awarded to students who earn either a standard or advanced studies diploma and (i) satisfy all of the mathematics requirements for the advanced studies diploma (four units of credit including Algebra II; two verified units of credit) with a "B" average or better; and (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 of Education's Seal for Excellence in Civics Education** will be awarded to students who earn either a standard or advanced studies 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 U.S. military prior to graduation will be deemed to have met this community service requirement.
- Students may receive other seals or awards for exceptional academic, career and technical, citizenship, or other exemplary performance in accordance with criteria defined by the local school board.

(NOTE: The requirements in the 2006 Virginia Standards of Accreditation for seals take effect with the ninth-grade class of 2006-2007 and beyond. The requirements adopted in the 2000 SOA for the ninth-grade classes of 2001 through 2005, as stated here, will remain in effect for the graduating classes of 2007, 2008, and 2009.)

FOREIGN LANGUAGE PROFICIENCY CREDIT

The Foreign Language Credit Program exam is given each fall to students who wish to demonstrate written proficiency in one of several languages: Amharic, Arabic, Bengali, Chinese, Farsi, French, Hindi, Korean, Punjabi, Russian, Somali, Spanish, Tagalog/Filipino, Twi, Urdu, or Vietnamese. Students who are successful on the exam receive two foreign language credits which may be used to fulfill the foreign language requirements of the Advanced Studies Diploma or as electives for the Standard Diploma. In addition, students who participate in the English for Speakers of Other Languages (ESOL) program during grades 7-12 may apply two units of credit in the Level 2 category (course code 5720) towards the foreign language requirement of the Advanced Studies Diploma.

For more information on the exam, go to:
<http://www.fcps.edu/DIS/OHSICS/forlang/creditem/index.htm>
 or contact the Foreign Language Office at 703-208-7724.

GRADE-POINT AVERAGE

Grade-point average (GPA) is calculated on the basis of **all courses for which 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.

Quality points are numerical values assigned to final grades for the purpose of determining a numerical average. Quality points are assigned to grades earned in all courses for which credit is received, as follows:

A	-	4.0	C+	-	2.5	D	-	1.0
B+	-	3.5	C	-	2.0	F	-	.0
B	-	3.0	D+	-	1.5	P	-	.0

Advanced Placement (AP) courses and specified International Baccalaureate (IB) courses receive an additional .5 added to the final grade upon successful completion of the course. Successful completion is defined as completing the course with a passing grade and taking the corresponding AP or IB exam. For example, a final grade of A in an AP/IB course shall receive 4.5 quality points for purposes of calculating grade point average.

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).

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 there are unusual circumstances, a student who has a passing grade may not withdraw during the terminating quarter of the course.

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 after high school goals. Students are counseled regarding opportunities for post-secondary 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 references are provided at your school and are available online. Each high school has a staffed Career Center with current college and career resource materials. Consult <http://www.fcps.edu/ss/CareerConnections>

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.

The following courses are currently available on line:

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

ADVANCED ACADEMIC PROGRAMS

Advanced Academic Programs at the high school level are comprised of Pre-AP, Pre-IB, or honors courses at the 9th and 10th grade levels, and the Advanced Placement (AP) or International Baccalaureate (IB) programs at the 10th, 11th, and 12th 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 go to <http://www.fcps.edu/ss/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 sit for the examinations. **(For more information, see Grade Point Average).**

The program for gifted and talented students 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, Pre-AP, Pre-IB, IB and 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 and pre-AP to AP, and from pre-IB to 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 take the end-of-course AP exam. AP exams are graded on a scale of 1-5.

The AP program is offered in English, social studies, mathematics, science, foreign 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 language, 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 take the end-of-course IB exams. IB exams are graded on a scale of 1-7. 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 with a score of "4" or better.

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 9th and 10th grade. Students may choose to work toward the MYP certificate which requires the completion of a personal project at the end of 10th grade and success on the MYP 10th 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.

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.

2009-2010 HIGH SCHOOL ACADEMY COURSE OFFERINGS

CHANTILLY ACADEMY

Engineering and Scientific Technology

Health and Human Services

A+	Culinary Arts	Girls Exploring Engineering (Engineering Sys)
Air Force JROTC	Dental Careers	Hotel Marketing
Animal Science	Early Childhood Careers	Independent Research – Engineering
Automotive Collision Service	Electrical Construction & Engineering	IT Seminar
Automotive Technology	Engineering Math	Medical Assistant
Cisco	Engineering Physics	Network Administration (Microsoft)
Computer Tech Prep	Engineering Systems	Oracle
Construction Technologies	Entrepreneurship	Pharmacy Technician
Cosmetology	Exploring Health Sciences	
Criminal Justice	Exploring the Language of Medicine	

EDISON ACADEMY

International Studies and Business

Engineering and Scientific Technology

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

FAIRFAX ACADEMY Communications and the Arts

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

FALLS CHURCH HIGH SCHOOL Health and Human Services

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

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

WEST POTOMAC ACADEMY

Communications and the Arts

Health and Human Services

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

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

Students who earn an "F" in three or four core courses are retained.

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

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 physical education credits, foreign 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, B+, B, 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.

CAREER AND TECHNICAL EDUCATION

Course descriptions for Career and Technical Education courses can be found under Business and Information Technology, Family and Consumer Sciences, Health and Medical Sciences, Marketing, Technology Education, Trade and Industrial, and 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.

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, 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 <http://www.fcps.edu/Directiv>

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Trade and Industrial.....

BUSINESS & INFORMATION TECHNOLOGY

BUSINESS MANAGEMENT-VIRTUAL ENTERPRISE (613500)

Grades: 10, 11, 12 Credit: one

Students explore the roles of business in the free enterprise system and the global economy. Students study how the American economy operates and prepare to make decisions as consumers, wage earners, and citizens by working together as a class to design a business which will operate virtually over the Internet through participation in Virtual Enterprise VA—a method of instruction in simulated business operation. The students determine the nature of their business, its products and/or services, and its management and structure. Students in each Virtual Enterprise engage in a variety of specific activities ranging from marketing and research, advertising, buying and selling products or services, paying wages and taxes, managing personal finances, to negotiating loans with the Central Bank. 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.

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.

FINANCE (612000)

Grades: 9, 10, 11, 12 Credit: one

This course is designed to introduce the student to the basic concepts of personal finance and its increasingly important impact on consumers. Units of study cover the basic principles needed for effective personal financial management and the practical applications of banking, planning and budgeting, taxes, credit, insurance, housing, investing, and retirement planning. Students will also develop a keen understanding of consumer rights, responsibilities, and protection related to the units of study. Finance offers the students the opportunity to learn the skills necessary to manage personal finances and make sound financial decisions through a variety of methods that include the Internet, mathematics applications, financial publications, financial software applications, hands-on activities, and group projects. 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.

INFORMATION TECHNOLOGY FUNDAMENTALS (667000)

All grades are allowed to take this course at McLean HS

Grades: 9, 10, 11, 12

Credit: one

Information Technology (IT) Fundamentals introduces the essential skills needed for students to pursue specialized programs leading to technical and professional careers and certifications in the IT industry. Hands-on, engaging activities provide students with the opportunity to investigate career opportunities in four major IT areas: Information Services and Support, Network Systems, Programming and Software Development, and Interactive Media.

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

ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION (119605)

Grades: 11

Credit: one/weighted +.5

Students who complete this course are prepared to take the Advanced Placement examination in English Language and Composition, and many earn college credit if a qualifying score is achieved. Students study advanced composition and analysis of language at a level equivalent to that of a full-year introductory college course. In refining their awareness of language and the writer's craft, students write works of publishable quality. (Schools may offer this course, the Literature and Composition Advanced Placement English course, or both of these courses.) With principal's approval, this course will fulfill the English credit for the targeted grade level. All students are required to take the Advanced Placement English exam. (This is a Standards of Learning aligned course which is tested in 11th grade.)

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

ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION (119504)

Grades: 12

Credit: one/weighted +.5

Students who complete this course are prepared to take the Advanced Placement examination in English Literature and Composition, and many earn college credit if a qualifying score is achieved. Students study composition and literary analysis at a level equivalent to that of a full-year introductory college course. Through in-depth studies of literary works, students sharpen their awareness of language and their understanding of the writer's craft. They establish critical standards for appreciating and evaluating literature. Completion of this course fulfills the English 12 course requirement. Schools may offer this course, or the Language and Composition Advanced Placement English course, described in optional course offerings, or both of these courses. (All students are required to take the Advanced Placement English exam.)

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.)

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. Counts as a sequential elective if taken with Expanding Literacies.

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).

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.)

JOURNALISM 2 (121000)

Grades: 10, 11, 12

Credit: one

Prerequisite: Journalism 1

Journalism 2 provides students opportunities for learning and participating in layout, design, desktop publishing, and printing processes. Students develop a more sophisticated level of journalistic writing and participate in the operation and production of the high school newspaper.

JOURNALISM 3 (121100)

Grades: 11, 12

Credit: one

Prerequisite: Journalism 2

In addition to enhancing their skills as reporters, Journalism 3 provides students advanced opportunities for learning editorial leadership, developing a personal sense of

professionalism, understanding the role of the newspaper in society, and becoming productive members of the newspaper staff. Students learn business and circulation management.

JOURNALISM 4 (121200)

Grades: 12

Credit: one

Prerequisite: Journalism 3

Journalism 4 provides students opportunities for learning marketable publication skills; developing individual writing, layout, and design styles; and assuming the role of editorial leadership and responsibility for producing a high school newspaper that serves a pluralistic society. Students also take responsibility for business and circulation management.

PHOTOJOURNALISM 1 (121500)

Grades: 10, 11, 12

Credit: one

Prerequisite: Journalism 1 or instructor permission

Photojournalism 1 provides students opportunities for learning and participating in the design, layout, and overall production of the high school yearbook; developing yearbook copywriting skills; and applying knowledge of photography. This course may provide a sequential elective when taken following Journalism 1.

PHOTOJOURNALISM 2 (121600)

Grades: 11, 12

Credit: one

Prerequisite: Photojournalism 1 or approval of instructor.

Photojournalism 2 provides students opportunities for learning the role of editorial leadership, developing a personal sense of professionalism, refining copywriting skills, and becoming productive members of the high school yearbook staff. This course may provide a sequential elective when taken following Photojournalism 1.

PHOTOJOURNALISM 3 (121700)

Grades: 11, 12

Credit: one

Prerequisite: Photojournalism 2 or approval of instructor.

Photojournalism 3 provides students with opportunities for learning marketable publications skills, developing individual style, and assuming editorial leadership roles and responsibilities for the high school yearbook. This course may provide a sequential elective when taken following Photojournalism 2.

BROADCAST JOURNALISM (122026)

Grades: 10, 11, 12

Credit: one

Prerequisite: Journalism 1

(Offered at Fairfax Academy only - transportation may be provided)

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.

CREATIVE WRITING (117100)

Grades: 9, 10, 11, 12

Credit: one-half or more

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: 9, 10, 11, 12

Credit: one-half or more

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. This course will fulfill the

graduation requirement for a credit in fine and practical arts and may count as a sequential elective when taken after Creative Writing.

DEBATE (139500)

Grades: 9, 10, 11, 12

Credit: one-half or more

The debate course is designed to encourage and improve in creative and critical thinking, research, speaking and argumentation, mock trials, Lincoln-Douglas Debate, and Policy Debate. In addition, students improve their ability to take notes and to listen.

FILM STUDY (144600)

Grades: 9, 10, 11, 12

Credit: one

This course involves the study of classic and award-winning films. Students critique both the artistic and technical merits of the films. They study the development of theme, plot, characterization, and setting in each production. They learn the vocabulary associated with film and use this vocabulary when discussing or writing about films. Students may create their own short films.

FAMILY & CONSUMER SCIENCES

EARLY CHILDHOOD CAREERS 1 (828527)

Grades: 10, 11, 12

Credit: two

(Selected sites have cooperative education experiences for students with the FCPS Head Start Program; transportation may be provided for high school students to Chantilly and West Potomac Academies.)

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; transportation may be provided for high school students to Chantilly and West Potomac Academies.)

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.

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.

DANCE 2/MODERN/JAZZ DANCE (931300)

Grades: 10, 11, 12

Credit: one

Prerequisite: Dance 1

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.

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.

FINE ARTS

MUSIC

ADVANCED PLACEMENT MUSIC THEORY (922604)

Grades: 10, 11, 12

Credit: one/weighted +.5

Prerequisite: Music Theory or equivalency exam

The purpose of this course is to prepare students to take the Advanced Placement music theory examination, with college credit and/or placement being awarded if a qualifying score is achieved. Students are given a solid foundation in intervals, pitch patterns, metric/rhythmic patterns, chords, and the terms that are part of a basic understanding of reading, performing, and listening to music. Analysis and some elementary composition, aural skills, sight-singing, and keyboard harmony will also be included. All students are required to take the Advanced Placement Music Theory exam.

INTERMEDIATE BAND (923316)

Level 2

(Concert)

Grades: 9, 10, 11, 12

Credit: one

Prerequisite: Beginning Band or 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.

ADVANCED BAND (923416)

Level 2

(Symphonic Band)

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.

ADVANCED ORCHESTRA (923916)

Level 2

(Chamber Soloists)

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.

JAZZ ENSEMBLE (924015)

Level 1

Grades: 9, 10, 11, 12

Credit: one

Prerequisite: Successful audition or permission of the instructor.

Corequisite: Schools may require membership in intermediate or advanced band class, and may require participation in marching band.

The instrumental jazz ensemble curriculum emphasizes improvisation and styles of the jazz idiom. Content includes the study of blues scale patterns and harmonic progressions innate in jazz music. Content also includes the study of the appropriate jazz literature and rehearsal and performance techniques from the jazz idiom. Performances and rehearsals both in and out of school may be required. Instrumentation of the jazz ensemble is at the discretion of the jazz instructor.

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

INTERMEDIATE WOMEN'S CHORUS (928516)

Grades: 9, 10, 11, 12

Credit: one

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.

ADVANCED WOMEN'S CHORUS (928916)

(*Armonia*)

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.

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

VOCAL ENSEMBLE (928015)

(*Madrigals*)

Grades: 9, 10, 11, 12

Credit: one

Prerequisite: Successful audition

Corequisite: Schools may require membership in intermediate or advanced choral class.

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

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

FINE ARTS THEATRE ARTS

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. Participation in co-curricular productions will be strongly encouraged.

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. Participation in co-curricular theatre productions may be required.

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 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. Leadership positions and major projects related to co-curricular theatre productions may be required.

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

FINE ARTS VISUAL ARTS

PHOTOGRAPHY 1 (919311)

McLean HS offers this course to 9th graders also.

Grades: 9, 10, 11, 12

Credit: one

Prerequisite: ART 1 or permission of the instructor

Students are introduced to standard black and white photographic processes through the use of cameras, films, light effects, and application of basic darkroom techniques. Digital photographic processes are introduced. Emphasis is placed on photographic production and self-expression. Study includes an overview of the history of photography and the work of well known photographers. A beginning portfolio is developed.

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

Student provides own working camera, paper and film. Lab fee \$45

PHOTOGRAPHY 2 (919411)

Grades: 10, 11, 12

Credit: one

Prerequisite: PHOTOGRAPHY 1

Students expand on the study of black and white photography and digital processes. They acquire and apply in-depth knowledge of photographic equipment, films, and specialized processes to include digital applications. Leading exponents, equipment, and techniques are introduced in their historical context. Students learn to critique, and evaluate their own work and recognized photographic works of art. They examine photography and its relationship to other art forms. A portfolio emphasizing communication of content and meaning and quality of craftsmanship is maintained.

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

Student provides own working camera, paper and film. Lab fee \$45

PHOTOGRAPHY 3: PORTFOLIO PREPARATION (919511)

Grades: 11, 12

Credit: one

Prerequisite: PHOTOGRAPHY 2

Students engage in advanced study of photographic processes. They practice the attitude and self-discipline of a working artist. A final portfolio evidencing technical proficiency, quality, concentration, and breadth of experience is required. Students apply professional exhibition techniques to exhibit their own work and the work of others. Exceptional

initiative and commitment to communication of ideas through the use of the photographic medium is expected.

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

Student provides own working camera, paper and film. Lab fee \$45

3-D STUDIO ART 1 (919711)

Ceramics

Grades: 10, 11, 12

Credit: one

Prerequisite: ART 1 or sophomore standing

Students develop techniques in the use of materials and equipment in the creation of three-dimensional artworks that may include sculpture, ceramics, architecture, and other three-dimensional art forms. Experimental use of three-dimensional materials in the creation of art is explored. Students work with a wide variety of materials to express ideas, improve design skills, and refine craftsmanship. Students maintain a portfolio of their work.

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

Lab fee \$45.

3-D STUDIO ART 2 (919712)

Ceramics

Grades: 11, 12

Credit: one

Prerequisite: 3-D STUDIO ART 1

Students acquire and apply in-depth knowledge of three-dimensional processes in the creation of original artworks that may include sculpture, ceramics, architecture, and other three-dimensional art forms. Historical and cultural styles and leading exponents of three dimensional art forms are studied. Critique and evaluation processes are used in the analysis of artworks. Professional exhibition techniques are applied in arranging a display of their own work and the work of others. Students compile a portfolio evidencing quality, concentration, and breadth of experience.

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

Lab fee \$45.

3-D STUDIO ART 3: PORTFOLIO PREPARATION (914763)

Ceramics

Grades: 12

Credit: one

Prerequisite: 3-D STUDIO ART 2

Students engage in advanced study of three-dimensional studio art processes, aesthetics, and criticism. They exhibit technical proficiency and personal style in using advanced three-dimensional materials and equipment. Students organize and present an exhibition of their work and the work of others. Exceptional initiative and commitment to communication of ideas through the use of three-dimensional media is expected. Students compile a body of work in a final portfolio.

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

Lab fee \$45.

ADVANCED PLACEMENT ART: 2-D DESIGN PORTFOLIO (914804)

Grades: 11, 12

Credit: one/weighted +.5

Prerequisite: ART 1 and ART 2 or permission of the instructor

This course is designed for highly motivated, advanced art students who have demonstrated a serious interest in the study of art. Ideally suited for students who work well independently, the course will focus on the preparation of a two-dimensional design portfolio of artworks that exhibit quality, concentration in an area of visual interest or problem solving, and breadth of experience in the formal, technical, and expressive means of an artist. The two-dimensional portfolio may include, but is not limited to, forms of artwork in graphic design, typography, digital imaging, photography, collage, fabric design, weaving, illustration, painting, and printmaking. Students will submit two-dimensional portfolios based on objectives that reflect the format and requirements established by the College Board for Advanced Placement Studio Art. Advanced Placement college credit and/or placement may be awarded if a qualifying exam score is achieved. All students are required to take the Advanced Placement Art: 2-D Design exam.

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

Lab fee \$45.

ADVANCED PLACEMENT ART: 3-D DESIGN PORTFOLIO (914961)

Grades: 11, 12

Credit: one/weighted +.5

Prerequisite: ART 1 and ART 2 or permission of the instructor

This course is designed for highly motivated, advanced art students who have demonstrated a serious interest in the study of art. Ideally suited for students who work well independently, the course will focus on the preparation of a three-dimensional design portfolio of artworks that exhibit quality, concentration in an area of visual interest

or problem solving, and breadth of experience in the formal, technical, and expressive means of an artist. The three-dimensional portfolio may include, but is not limited to, traditional sculpture, architectural models, ceramics, and three dimensional fiber arts or metal work. Students will submit three-dimensional portfolios based on objectives that reflect the format and requirements established by the College Board for Advanced Placement Studio Art. Advanced Placement college credit and/or placement may be awarded if a qualifying exam score is achieved. All students are required to take the Advanced Placement Art: 3-D Design exam.

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

Lab fee \$45.

ADVANCED PLACEMENT ART: DRAWING PORTFOLIO (915004)

Grades: 11, 12

Credit: one/weighted +.5

Prerequisite: ART 1 and ART 2 or permission of the instructor

This course is designed for highly motivated, advanced art students who have demonstrated a serious interest in the study of art. Ideally suited for students who work well independently, the course will focus on the preparation of a drawing portfolio of artworks that exhibit quality, concentration in an area of visual interest or problem solving, and breadth of experience in the formal, technical, and expressive means of an artist. The drawing portfolio addresses a broad interpretation of drawing issues including painting, printmaking, studies for sculpture, some forms of design, and abstract and observational works. Students will prepare and submit drawing portfolios based on objectives that reflect the format and requirements established by the College Board for Advanced Placement Studio Art. Advanced Placement college credit and/or placement may be awarded if a qualifying exam score is achieved. All students are required to take Advanced Placement Art: Studio Art Drawing exam.

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

Lab fee \$45.

ADVANCED PLACEMENT ART: ART HISTORY (915104)

Grades: 10, 11, 12

Credit: one/weighted +.5

Students develop an understanding of works of art within their historical context by examining issues such as politics, religion, patronage, gender, function, and ethnicity. The course also addresses visual analysis, aesthetics, and criticism. Students should demonstrate a high degree of commitment to academic work and possess academic skills needed to pursue a program designed to meet college standards. The course is designed to prepare students for the Advanced Placement Art History examination, for which college credit and/or placement may be awarded if a qualifying score is achieved. Objectives for Advanced Placement courses reflect the format and requirements in the Advanced Placement Course Description for Art published by the College Board. No prior experience in art studio or art history is assumed. All students are required to take the Advanced Placement Art History exam.

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

FOREIGN LANGUAGE

FRENCH 4 (514000)

Recommend a C or above in level 3.

Grades: 10, 11, 12

Credit: one

Prerequisite: Level 3 or equivalency test

Students develop more sophisticated communication skills in all four areas – listening, speaking, reading and writing – with emphasis on the ability to interact orally and in writing. The authentic reading selections are emphasized at this level. Students communicate using more complex language structures and express abstract ideas with reasonable fluency. Students are able to create and listen with understanding to reports and presentations. They are also able to describe, summarize and discuss selected upper level POS themes and topics.

FRENCH 5 (515000)

Recommend a C or above in AP French.

Grades: 11, 12

Credit: one

Prerequisite: Level 4, or Advanced Placement Language, or equivalency test

Students study selected upper level POS themes and topics using more sophisticated communication skills in all four areas – listening, speaking, reading and writing – with emphasis on the ability to interact orally and in writing. They participate in in-depth studies of major literary works and historical events and learn to recognize the various themes and conflicts involved. Students express abstract ideas while discussing literature, history, and current events.

by contemporary authors. Materials will include recordings, films, newspapers, and magazines. All students are required to take the Advanced Placement Spanish Language exam.

ADVANCED PLACEMENT FRENCH LANGUAGE (517004)

Recommend a C or above in Level 4.

Grades: 11, 12

Credit: one/weighted +.5

Prerequisite: Level 4 or equivalency test

The purpose of this course is to prepare students to take the Advanced Placement Language examination given each spring, for which placement and/or credit may be awarded at the college level if a qualifying score is obtained. Students study the use of language for active communication. Specifically, they understand the spoken target language in both formal and conversational situations. They express ideas accurately and resourcefully, both orally and in writing, with reasonable fluency, and they develop a vocabulary sufficiently ample for reading newspaper and magazine articles, contemporary literature, and other nontechnical writings. They receive extensive training in the organization and writing of compositions, review syntax, and study selected works by contemporary authors. Materials will include recordings, films, newspapers, and magazines. All students are required to take the Advanced Placement French Language exam.

GERMAN 4 (524000)

Recommend a C or above in German 3.

Grades: 10, 11, 12

Credit: one

Prerequisite: Level 3 or equivalency test

Students develop more sophisticated communication skills in all four areas – listening, speaking, reading and writing – with emphasis on the ability to interact orally and in writing. The authentic reading selections are emphasized at this level. Students communicate using more complex language structures and express abstract ideas with reasonable fluency. Students are able to create and listen with understanding to reports and presentations. They are also able to describe, summarize and discuss selected upper level POS themes and topics.

ADVANCED PLACEMENT GERMAN LANGUAGE (527004)

Recommend a C or above in German 4.

Grades: 11, 12

Credit: one/weighted +.5

Prerequisite: Level 4 or equivalency test

The purpose of this course is to prepare students to take the Advanced Placement Language examination given each spring, for which placement and/or credit may be awarded at the college level if a qualifying score is obtained. Students study the use of language for active communication. Specifically, they understand the spoken target language in both formal and conversational situations. They express ideas accurately and resourcefully, both orally and in writing, with reasonable fluency, and they develop a vocabulary sufficiently ample for reading newspaper and magazine articles, contemporary literature, and other nontechnical writings. They receive extensive training in the organization and writing of compositions, review syntax, and study selected works by contemporary authors. Materials will include recordings, films, newspapers, and magazines. All students are required to take the Advanced Placement German Language exam.

SPANISH 4 (554000)

Recommend a C or above in Spanish 3.

Grades: 11, 12

Credit: one

Prerequisite: Level 3 or equivalency test

Students develop more sophisticated communication skills in all four areas – listening, speaking, reading and writing – with emphasis on the ability to interact orally and in writing. The authentic reading selections are emphasized at this level. Students communicate using more complex language structures and express abstract ideas with reasonable fluency. Students are able to create and listen with understanding to reports and presentations. They are also able to describe, summarize and discuss selected upper level POS themes and topics.

ADVANCED PLACEMENT SPANISH LANGUAGE (557004)

Recommend a C or above in Spanish 4.

Grades: 11, 12

Credit: one/weighted +.5

Prerequisite: Level 4 or equivalency test

The purpose of this course is to prepare students to take the Advanced Placement Language examination given each spring, for which placement and/or credit may be awarded at the college level if a qualifying score is obtained. Students study the use of language for active communication. Specifically, they understand the spoken target language in both formal and conversational situations. They express ideas accurately and resourcefully, both orally and in writing, with reasonable fluency, and they develop a vocabulary sufficiently ample for reading newspaper and magazine articles, contemporary literature, and other nontechnical writings. They receive extensive training in the organization and writing of compositions, review syntax, and study selected works

GENERAL

COMPUTER TECHNOLOGY ASSISTANCE (980818)

Grades: 11, 12

Credit: one

Prerequisite: Successful completion of an introductory computer course or approval of course instructor. Technical Assistant Application. Personal Traits and Occupational Skills Rating by each current teacher.

Computer Technology Assistance is an elective course open to students who have a fundamental level of computer hardware and software knowledge. Students will learn advanced level concepts of computer architecture, computer operating systems, network concepts, software maintenance, and advanced computer troubleshooting techniques as they apply their knowledge to the maintenance and support of computers within the school. Students will maintain a weekly journal of their learning experiences that will serve as documentation for potential employment opportunities.

LEADERSHIP TRAINING 1 (980800)

Grades: 9, 10, 11, 12

Credit: one-half or more

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 HELPING I (980760)

Grades: 7, 8, 10, 11, 12

Credit: one

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

High School: This course is designed to train students to implement a peer helper program in the high school. The training program is designed to develop students' interpersonal, support, and leadership skills for assisting other students to grow socially, emotionally, and academically. Students are taught to help other students (elementary and secondary) by learning to be effective listeners, group leaders, and positive role models. The course presents information and training in the following areas of peer helping preparation: verbal and nonverbal communication, self-exploration and self-esteem, listening skills, decision making/problem solving, peer refusal skills, substance abuse prevention, confidentiality and referral procedures. Emphasis is placed on experiential learning, supervised group activities, and skills practice. Middle School: This is an elective course designed to train and facilitate a peer helper program in the middle school. The course provides an opportunity for students to develop their support and leadership skills in assisting others. Students are taught to help peers by learning to be more effective listeners, developing friendship skills, becoming group leaders, and being positive role models. Course topics include self-esteem and self-exploration, communication skills, peer refusal skills, substance abuse prevention, and decision-making and problem-solving techniques. Student activities include friendly support to peers, orientation of new students, elementary outreach, and community service programs.

PEER MEDIATION 1 (980900)

Grades: 7, 8, 9, 10, 11, 12

Credit: one-half

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.

HEALTH and PHYSICAL EDUCATION

SPORTS MEDICINE (763000)

Grades: 9, 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)

Grades: 10, 11, 12

Credit: one-half or more

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)

Grades: 11, 12

Credit: one-half or more

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 MARKETING (813000)

10th graders may take this course at McLean HS

Grades: 11, 12

Credit: one

Prerequisite: Marketing 1 (812000), Fashion Marketing 1 (814000), Sports and Entertainment Marketing (817500), or approval of instructor

Students have the opportunity to expand their knowledge of marketing from a management perspective. This course focuses on areas to include: ethics, consumer and environmental protection, economics, career development, entrepreneurship, professional sales, marketing-information-management, product planning, pricing, promotion, purchasing, distribution, finance, and the development of a business plan. 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.

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.

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, 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.

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.

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.

MEDIA MARKETING (812100)

Grades: 10, 11, 12

Credit: one

(West Springfield only)

Media Marketing is a specialized curriculum option that enables students to investigate and prepare for careers in the broadcasting industry. Job placement during the year in radio broadcasting occupations in the community is highly encouraged. Instruction includes such areas as the organization and operation of radio and television stations, broadcasting sales techniques, the legal basis for broadcasting, and radio and television production. 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.

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.

MATHEMATICS

GEOMETRY / PART 1 (314400)

Grades: 10, 11

Credit: one

Prerequisite: Algebra 1

Students develop an understanding of the reasoning process and the concept of proof. Properties and relationships of lines, angles, and triangles are developed inductively and then verified deductively. Topics include conditional statements, syllogisms, points in space, parallel lines, transversals, planes, congruence, the Pythagorean Theorem, and similarity. Calculators, computers, graphing utilities, dynamic geometry software, and other appropriate technology tools will be used to assist in teaching and learning. This course includes an integrated review of algebraic topics needed in geometry. Students must pass Geometry / Part 2 or Geometry to receive mathematics graduation credit for Geometry / Part 1.

TRIGONOMETRY (315032)

C or above recommended in Geometry and Algebra 2

Grades: 11, 12

Credit: one-half

Prerequisite: Geometry and Algebra 2

Trigonometry topics include circular functions, right triangle ratios, solving trigonometric equations, inverses, identities, the Laws of Sines and Cosines, graphing trigonometric functions, and applying trigonometric techniques to solving real-world problems. 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.

PROBABILITY AND STATISTICS SEMESTER COURSE (319032)

C or above recommended in Geometry and Algebra 2

Grades: 11, 12

Credit: one-half

Prerequisite: Geometry and Algebra 2

Course content includes theory of probability, description of statistical measurements, probability distributions, and statistical inference. Optional topics include statistical inference involving two populations, linear regression, and correlation.

ADVANCED PLACEMENT STATISTICS (319204)

C or above recommended in Geometry and Algebra 2

Grades: 10, 11, 12

Credit: one/weighted +.5

Prerequisite: Geometry and Algebra 2

Advanced Placement Statistics includes graphical and numerical techniques to study patterns and explore data, strategies for developing a plan to conduct a study based on data analysis, probability as a tool for predicting distribution of data, and techniques of statistical inference. Students who successfully complete this course and the AP statistics examination may receive credit and/or advanced placement for a one-semester college statistics course. All students are required to take the Advanced Placement exam.

ADVANCED PLACEMENT CALCULUS AB (317004)

B or above recommended in Precalculus or Precalculus Honors

Grades: 11, 12

Credit: one/weighted +.5

Prerequisite: Precalculus with Trigonometry or Precalculus with Trigonometry Honors

The purpose of this course is to prepare students for the Advanced Placement AB examination, for which placement and/or credit may be awarded at the college level, if a qualifying score is obtained. Content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for AB Calculus. Content includes concepts and applications of differential and integral calculus, limits, and elementary differential equations. All students are required to take the Advanced Placement exam.

ADVANCED PLACEMENT CALCULUS BC (317704)

B or above recommended in Precalculus Honors

Grades: 10, 11, 12

Credit: one/weighted +.5

Prerequisite: Precalculus with Trigonometry Honors

The purpose of this course is to prepare students for the Calculus BC Advanced Placement examination, for which placement and/or credit may be awarded at the college level, if a qualifying score is obtained. Content of this college-level course corresponds to the syllabus of the College Board Calculus BC Advanced Placement Program. Content includes concepts and applications of differential and integral calculus, sequences and series, and elementary differential equations. All students are required to take the Advanced Placement exam.

MULTIVARIABLE CALCULUS (317860)

Grades: 11, 12

Credit: one-half/weighted +.25

Prerequisite: AP Calculus BC or IB Mathematics HL II

A third semester college-level course, Multivariable calculus is the calculus of three dimensions and includes the study of partial differentiation, multiple integrals, and line integrals. This course will receive a weighted grade and may be taken for college credit.

MATRIX ALGEBRA (319800)

Grades: 11, 12

Credit: one-half/weighted +.25

Prerequisite: AP Calculus AB or AP Calculus BC or IB Mathematics HL II

This college-level course includes the study of systems of linear equations, vector spaces, linear dependence, linear transformations and matrix representation, orthogonal reduction, determinants, eigenvectors and eigenvalues, and a variety of applications. This course will receive a weighted grade and may be taken for college credit.

ADVANCED PLACEMENT COMPUTER SCIENCE A (318505)

Grades: 10, 11, 12

Credit: one/weighted +.5

Prerequisite: Algebra 1 and Geometry

The purpose of this course is to prepare students for the Advanced Placement Computer Science A examination, for which college credit and/or placement may be given, if a qualifying score is achieved. Content of this college-level course corresponds to the syllabus of the College Board Advanced Placement Program for Computer Science A. Students will design software to solve problems and use data structures, such as classes and arrays, to represent information within a program. Students will also gain a working knowledge of the major hardware and software components of computer systems. Java is the main vehicle for implementing solutions to problems. All students are required to take the Advanced Placement exam.

INDIVIDUALIZED MATHEMATICS (312180)

Grades: 9, 10, 11, 12

Credit: one

Prerequisite: None

The purpose of this course is to provide instruction of elementary mathematics skills to ESOL or special education students who are functioning below the sixth grade level in mathematics. The course is designed to present the elementary mathematics Program of Studies in a condensed format using manipulatives, special materials, and adaptive strategies. The course includes 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.

SCIENCE

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 as well as the anatomical aspects of human biology. Careers in the medical sciences are explored and an independent project is required. If dissections are a 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.

ADVANCED PLACEMENT BIOLOGY (437004)

Recommended co-requisite: Physics I Required co-requisite at McLean HS: Biology Senior Science Investigations.

Grades: 11, 12

Credit: one/weighted +.5

Prerequisite: Biology 1 and Chemistry 1

The purpose of this course is to prepare students to take the Advanced Placement Biology exam for which college credit and/or placement may be granted by an approving institution if a qualifying score is achieved. Advanced Placement Biology is a second-level biology course that utilizes laboratory research activities to acquaint students with the means by which biological information is collected and interpreted. The course is designed for students who have completed the core science curriculum and are now prepared to pursue more advanced and specialized studies. If dissections are a part of the laboratory experience, alternatives are available. All students are required to take the Advanced Placement exam.

Students have the opportunity for intense ecological field study through this course

BIOLOGY SENIOR SCIENCE INVESTIGATIONS (432035)

Grades: 11, 12

Credit: one

Corequisite: AP Biology

Senior Science Investigations complements the AP Biology program and supplements the core laboratory requirement of the course. Students gain practical experience in accessing and utilizing the scientific literature, employing advanced laboratory techniques, and increasing their ability to design and conduct in-depth independent research projects. A forum is provided which allows students to discuss, among themselves and with distinguished visiting scientists, current topics related to science and technology issues.

ADVANCED PLACEMENT CHEMISTRY (447004)

Recommended co-requisite: Physics I Required co-requisite at McLean HS: Chemistry Senior Science Investigations.

Grades: 11, 12

Credit: one/weighted +.5

Prerequisite: Chemistry 1

Corequisite: Recommended: Physics or Precalculus with Trigonometry

The purpose of this course is to prepare students to take the Advanced Placement examination, for which college credit and/or placement may be given if a qualifying score is achieved. Advanced Placement Chemistry is a second-level, laboratory-centered course that provides an opportunity for students to undertake a more comprehensive investigation of some aspects of chemistry than is normally possible in the first-year chemistry course. It is designed for students who have completed a core science curriculum and are now ready to pursue more advanced and specialized studies. All students are required to take the Advanced Placement exam.

CHEMISTRY SENIOR SCIENCE INVESTIGATIONS (442035)

Grades: 11, 12

Credit: one

Corequisite: AP Chemistry

Senior Science Investigations complements the AP Chemistry curriculum and supplements the core laboratory requirement of the course. Students gain practical experience in accessing and utilizing the scientific literature, employing advanced laboratory techniques, and increasing their ability to design and conduct in-depth independent research projects. A forum is provided which allows students to discuss, among themselves and with distinguished visiting scientists, current topics related to science and technology issues.

ACTIVE PHYSICS (451050)

Grades: 10, 11, 12

Credit: one

Prerequisite: One laboratory science course

Active Physics is a physics course for students with weak mathematics skills. This course has a strong emphasis on experimentation using computers and probeware. The six units of study include the physics of sports, medicine, transportation, home, communication, and predictions. The physics content is presented in a problem solving manner to strengthen science and mathematics content knowledge and skills.

ADVANCED PLACEMENT PHYSICS C (457004)

Required co-requisite: Physics Senior Science Investigations

Grades: 11, 12

Credit: one/weighted +.5

Prerequisite: Physics 1

Corequisite: Calculus AB or Calculus BC

The purpose of this course is to prepare students to take the Advanced Placement Physics C examination, for which college credit and/or placement may be given if a qualifying score is achieved. Advanced Placement Physics is a second-level course which surveys a broad selection of physics topics at a level above Physics 1. It is designed for students who have completed a core science curriculum and are now ready to pursue more advanced and specialized studies. AP Physics C serves as the foundation in physics for students who wish to pursue physical science or engineering degrees. All students are required to take the Advanced Placement exam.

Calculus BC is recommended over Calculus AB

PHYSICS SENIOR SCIENCE INVESTIGATIONS (452035)

Grades: 11, 12

Credit: one

Corequisite: AP Physics C

Senior Science Investigations complements the AP Physics C curriculum. This course is recommended for students who will be taking the mechanics and electricity and magnetism portions of the Physics C exam. Students gain practical experience in accessing and utilizing the scientific literature, employing advanced laboratory techniques, and increasing their ability to design and conduct in-depth independent research projects. A forum is provided which allows students to discuss, among themselves and with distinguished visiting scientists, current topics related to science and technology issues. Students taking Senior Science Investigations with AP Physics C must take the mechanics and electricity and magnetism portions of the AP Physics C exam.

OCEANOGRAPHY (425000)

Grades: 11, 12

Credit: one

Prerequisite: Two laboratory science courses

Oceanography deals with geophysical and biological oceanography and covers such topics as the geology and geography of ocean basins, physical properties of sea water, marine chemistry, marine biology, salinity and density circulation in the oceans, waves, and tides and oceanographic instruments, tools, and methods. The course is designed to be an in-depth treatment of oceanography 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.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE (427004)

Recommended co-requisite: Physics 1

Grades: 11, 12

Credit: one/weighted +.5

Prerequisite: Biology 1 and Chemistry 1

The purpose of this course is to prepare students to take the Advanced Placement examination, for which college credit and/or placement may be given if a qualifying score is achieved. The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science and is designed to stress scientific principles and analysis. The course includes a laboratory component. Students examine how science is a process, how energy conversions underlie all ecological processes and how the Earth is one interconnected system. Students will explore how humans alter the natural system and the cultural and social context of environmental problems. All students are required to take the Advanced Placement exam.

CONCEPTS SCIENCE (462260)

Grades: 9, 10, 11

Credit: one

This course may be offered only with the approval of the Office of High School Instruction and K-12 Curriculum Services. Contact Nancy Batchelder, ESOL Specialist,

703-208-7708. This course taught by science teachers is designed for VDOE Level 1 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.

1 credit at McLean HS

Grades: 11, 12

Credit: one-half or more

This course provides practical information and problem-solving opportunities regarding the law. Students develop both knowledge of the law and skills necessary for survival in our law-based society. Students engage in active learning experiences such as mock trials, moot courts, role play, case studies, simulations and small group exercises. Students explore the definition of law, citizen rights and responsibilities under the law, learn methods of dispute resolution, as well as identify and analyze public issues.

SOCIAL STUDIES

WORLD HISTORY AND GEOGRAPHY 1 HONORS (221936)

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 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.

ADVANCED PLACEMENT WORLD HISTORY (234004)

McLean HS only offers this course to 10th graders

Grades: 10, 11, 12

Credit: one/weighted +.5

Advanced Placement World History is designed to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. Focused primarily on the past fifteen hundred years of the global experience, the course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage prior to 600. All students are required to take the Advanced Placement World History exam. This course may be used to satisfy the World History and Geography II requirement. Note: When taken as the World History and Geography 2 substitute course, the World History and Geography 2 SOL Test is required. The SOL Test is not given when AP World is taken as an elective.

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

ADVANCED PLACEMENT UNITED STATES HISTORY (231904)

Grades: 11

Credit: one/weighted +.5

The purpose of this course is to prepare students to take the Advanced Placement examination in American History for which college credit and/or placement may be given if a qualifying score is made. Students develop the factual knowledge and analytical skills necessary to deal with the issues and problems of American History. They do in-depth analysis of major developments; become familiar with primary sources; assess historical materials, evidence, and interpretations; and learn to write research papers. The course is equal to a full-year introductory college course. Completion of this course fulfills the graduation requirement for one credit in Virginia and United States History. All students are required to take the Advanced Placement United States History exam.

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

ADVANCED PLACEMENT COMBINED UNITED STATES AND COMPARATIVE GOVERNMENT (244567)

Grades: 12

Credit: one/weighted +.5

The purpose of this course is to prepare students to take both the Advanced Placement examination for United States Government and Politics and the Advanced Placement examination for Comparative Government for which college credit and/or placement may be given if qualifying scores are made. The course includes a study of comparative government as well as American government and politics. In the study of American government, students interpret national, state, and local government and politics through a study of both general concepts and specific case studies. In the study of comparative government, emphasis is placed on understanding the world's diverse political structures and practices, as well as on interpreting and analyzing the key political relationships found in national governments. Completion of this course fulfills the graduation requirement for one credit in Virginia and United States Government. Students in this course must take at least one of the two AP Government exams and may take both.

LAW IN ACTION (242000)

PHILOSOPHY (295000)

Grades: 11, 12

Credit: one-half or more

This course offers students an opportunity to investigate classical philosophical issues from both secular and religious sources. A study of philosophy will help students to value more fully the insights and structures of the great philosophies; respect the difference between systematic philosophical investigation and personal belief; develop critical skill in the analysis of the writings of the philosophers and a comprehensive understanding of similarities and differences in philosophical discussion, both religious and secular, throughout the ages; value the rich diversity of ideas and points of view on many issues; and transfer philosophical knowledge and method to the study of other disciplines and to problem solving.

PSYCHOLOGY (290000)

Grades: 11, 12

Credit: one-half or more

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)

McLean HS only offers course to 11th and 12th graders

Grades: 10, 11, 12

Credit: one-half or more

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 RELIGIONS (295060)

Grades: 11, 12

Credit: one-half or more

In this course, students develop the background necessary for an appreciation of the basic beliefs and practices of the world's religions. Importance is placed on historical origins as well as current beliefs. Students will study Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, Shintoism, Taoism, and other belief systems.

ADVANCED PLACEMENT EUROPEAN HISTORY (239904)

Grades: 10, 11, 12

Credit: one/weighted +.5

The purpose of this course is to prepare students to take the Advanced Placement examination in European History, for which college credit and/or placement is given if a qualifying score is achieved. The Advanced Placement Program in European History covers the basic chronology of events from 1450 to the present, from the High Renaissance to the recent past. Students are expected to demonstrate a knowledge of this basic chronology and of major events and trends in the intellectual-cultural, political-diplomatic and social-economic history of modern Europe. In addition, students are expected to demonstrate an ability to analyze historical evidence and to express that understanding and analysis in writing. All students are required to take the Advanced Placement European History exam.

ADVANCED PLACEMENT MACROECONOMICS (280204)

Grades: 11, 12

Credit: one-half/weighted +.25

The purpose of this course is to prepare students to take the Advanced Placement examination, for which college credit and/or placement may be given if a qualifying score is achieved. This course is designed to provide students with an understanding of the economic principles which apply to an economic system as a whole. Primary emphasis is placed on industries, national economics, performance indicators, and international economics. All students are required to take the Advanced Placement Macroeconomics exam.

PART 2: SPECIAL EDUCATION

ADVANCED PLACEMENT MICROECONOMICS (280304)

Grades: 11, 12 Credit: one-half/weighted +.25

The purpose of this course is to prepare students to take the Advanced Placement examination, for which college credit and/or placement may be given if a qualifying score is achieved. This course is designed to provide students with an understanding of the principles of economics which apply to the functions of decision-makers, both consumers and producers, within the larger economic system. Primary emphasis is placed on the nature and functions of product markets, and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. All students are required to take the Advanced Placement Microeconomics exam.

ADVANCED PLACEMENT PSYCHOLOGY (290204)

11th graders may also take this course at McLean HS

Grades: 11, 12 Credit: one/weighted +.5

The purpose of this course is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the methods psychologists use in their science and practice. The aim of Advanced Placement Psychology is to provide the students with a learning experience equivalent to that obtained in an introductory college psychology course. College credit and/or placement may be given if a qualifying score is made on the Advanced Placement examination. The rigorous course syllabus and college level texts both suggest that students who enroll should be highly motivated and intellectually curious. All students are required to take the Advanced Placement Psychology exam.

WORLD CONCEPTS (299660)

Grades: 9, 10, 11 Credit: one-half or more

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.

TECHNOLOGY EDUCATION

ELECTRONICS 2 (841200)

Grades: 10, 11, 12 Credit: one

Prerequisite: Electronics 1 (841600)

Students learn theory and circuitry of more complex systems. Semiconductor, linear, and analog electronic circuits are explored. Students develop an advanced understanding of electrical theory, develop a measure of skill in the application of electrical theory as it applies to electronics circuit development, and learn safe practices for working with electricity and electronics.

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.

RESEARCH AND DEVELOPMENT ENGINEERING (849100)

Grades: 11, 12 Credit: one

Prerequisite: Preengineering (849000)

This course emphasizes student knowledge and application of engineering problem-solving through research and development concepts. Students learn to work in collaborative engineering teams and solve group design projects. Students are challenged to solve problems using design, mathematics, computer simulations, scientific analysis, and oral and written skills. Engineering is studied with a focus on modeling, systems, optimization, technology-society interaction, design, and engineering ethics. Projects may be models, systems, or products that creatively solve an engineering problem.

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.

BASIC SKILLS I-IV (788980)

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 Diploma. (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 school 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.

FACILITIES AND GROUNDS MAINTENANCE (859061)

Grades: 9, 10, 11, 12 Credit: one

Formerly General Building Maintenance/Facilities Services

Students are trained in maintenance areas associated with large and small buildings involving not only custodial trades but also general maintenance of electrical and plumbing systems, carpentry, and other minor repairs related to the school or apartment dwelling complex, as well as the grounds surrounding the building. Students successfully completing two years of 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 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.

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.

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.

OFFICE TECHNOLOGY AND PROCEDURES (847161)

Grades: 9, 10, 11, 12

Credit: one

This program offers instruction in office procedures and technology. Students learn skills in MS Office applications and perform assignments essential to the operation of the day-to-day instructional program at schools, offices, and in the business community. This course can be taken for more than one year. 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 (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.