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Pulaski County High School's webpage
<http://www.pcva.us/schools/PCHS/handbooks/CourseCatalog1516.pdf>

Course Catalog

2016-2017

Pulaski County High School
Home of the Cougars
540-643-0747



All course offerings are contingent upon available resources including instructional personnel, student interest, funding and Virginia Department of Education directives and/or mandates.

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GENERAL INSTRUCTIONS

INSTRUCTIONS FOR REGISTRATION

Students should follow these instructions for completion of the registration form:

- Students should select the courses they wish to take including appropriate required courses.
- All students must be scheduled for a minimum of eight (8) credits or seven (7) credits as determined by the school schedule.
- Students are urged to read the course descriptions carefully and to note prerequisites before making selections.
- Students should consult with guidance counselors and teachers for assistance in course selections for careers, college entrance and graduation requirements.
- Students should go over their course selections with their parents and discuss their educational and career plans.
- Students should also carefully select alternate courses, as these courses are often utilized when conflicts occur.

POLICIES

Alternating Course Offerings

Beginning in the 2015-16 course catalog, several courses, as indicated by boxing and shading, will begin a two year rotation. Courses with a box/border surrounding the description will be a part of the rotation. Course descriptions surrounded with a box/border will be offered in the upcoming school year, but not the following year. Courses with a box or border **and** shading within the description will not be offered in the upcoming school year, but will be offered in two years. This means students will need to pay particular attention to the availability of courses when registering. As always, the determination of whether a course makes it into the master schedule is determined by enrollment numbers.

Audit Policy

At PCHS, a student may audit a previously taken class with teacher recommendation and administrative approval in order to improve basic knowledge levels. The class credit and GPA value will remain the same as that awarded when the class was originally taken. Students auditing a course must have a parent/guardian signed contract on file.

Awarding of Credits

Beginning with the entering freshman class of 2015 and beyond, half credits will not be awarded to year-long courses at the completion of first semester. Year-long courses will receive a final credit upon successful completion of the course at the end of the school year or second semester.

Course Adjustment Policy

Due to scheduling conflicts and staffing considerations, it is sometimes necessary to place students in courses that they did not request. We simply cannot meet every request made by students without unlimited resources. However, our block schedule usually allows the rescheduling of any unfulfilled request at a later date. When developing student schedules, we always consider courses needed for graduation before we consider placement of students in elective courses. Students may request a course adjustment with **mandatory** written permission from their parent/guardian within the first 7 days of the semester.

Changes from one course to another will be made under the following circumstances:

- failure of a course that is a prerequisite for a selected course,
- failure of a course that is a graduation requirement,
- completion of a selected course in summer school,
- change in a program of studies with an administrative approval,
- grouping adjustments and/ or eligibility committee recommendations,
- human or computer error,
- class size

Credit for Summer Activities

Summer activities, such as band camp, cheerleading camp, football camp, SOL remediation, etc., do not carry academic credit. Only summer school courses, which include Camp Cougar, qualify students to earn summer academic credit. Off campus summer school must be approved by guidance and administration prior to taking the course(s).

GENERAL INSTRUCTIONS

Early Release Policy

Early release is not a part of the PCHS curriculum. Students will be released before the end of the school day only if they are involved in a bon-a-fide cooperative program, a special education program with an IEP requirement of a modified school day, an Alternative Diploma Program that may include a modified school day, a Section 504 Plan of the Rehabilitation Act program that may require a modified schedule due to medical reasons, or by special approval from the Superintendent of Schools.

Grade Classification

Promotion for grade classification purposes is based upon a combination of high school semesters and credits earned.

- Freshman: A student entering high school for the first time
- Sophomore: Completion of two high school semesters with a minimum of six credits
- Juniors: Completion of four high school semesters with a minimum of twelve credits
- Senior: Completion of six high school semesters with a minimum of nineteen credits

Beginning with the summer 2015 courses, repeat courses for credit (i.e. courses previously failed requiring 70 hours of instruction) will be added to the previous spring semester grades recorded on the transcript. New courses taken for credit (i.e. Camp Cougar 9, Camp Cougar 10 and Algebra I which require 140 hours of instruction) will be added to upcoming fall semester grades recorded on the transcript.

Prerequisites

Please note that certain classes have a prerequisite listed for registration. When the prerequisite states “successful completion of,” we define that as the student has performed the previous course work required and received a grade of “C” or better.

Rank and Average

Rank in class is based on all subjects including withdrawals (WF). A system of ranking establishes the class standing of all 12th grade students. A point value is assigned to the final grade of all subjects that are not weighted as follows: A = 4, B = 3, C = 2, D = 1 and F = 0. Weighted classes (AP, dual enrollment) have the following values: A = 5, B = 4, C = 3, D = 2, and F = 0. The final GPA will include both semesters of the senior year. The rank and average is recorded on the scholastic record and become a part of the student’s personal file.

Tuition

Courses that require a tuition fee are indicated. Tuition for a course is the responsibility of the student unless otherwise noted.

VHSL Athletic Eligibility

The Virginia High School League has determined that students in 4x4 block scheduled schools must pass at least three of four classes the previous semester to be eligible to participate in VHSL sanctioned activities.

Waiver Policy

Students who do not meet a course prerequisite must have a waiver form signed by a parent and returned to the appropriate counselor before registering. Parents signing the waiver form should understand that the school does not recommend that the student register for this course and the request will be subject to administrative approval.

Withdrawal from Course Policy

Students will have a maximum of 7 school days to request withdrawal from any class without penalty if an alternative course is available. Written parent consent is mandatory prior to a course change being considered. After 7 school days, if administrative approval is granted for a student to withdraw from a class, a grade of WF (withdrawal with an “F”) will be recorded on the scholastic record and thereafter will be used in rank and average calculations.

PROGRAMS

Achievement Philosophy

Students that have evidenced high achievement in previous classes are encouraged to select more challenging course work in vocational, fine arts, and academic offerings.

GENERAL INSTRUCTIONS

Advanced Placement Program

The Advanced Placement Program of the College Board involves college-level courses and exams for high school students. The following AP courses are offered (contingent upon sufficient enrollment):

- AP English - Literature and Composition
- AP English - Language and Composition
- AP Calculus
- AP U.S. Government and Politics
- AP U.S. History
- AP European History
- AP Psychology

These special college-level courses are challenging and take more time, require more work, and give greater depth than other high school courses. Each college decides what AP examination grades it will accept for credit and/or advanced placement. The following link will assist in determining credits awarded by colleges for AP tests: <https://apstudent.collegeboard.org/creditandplacement/search-credit-policies>. The benefits of advanced placement and credit are numerous and include taking advanced courses in the AP subject, exploring other subjects of interest, joining honors and other special programs, and saving tuition fees.

Students whose academic achievement in a subject area, overall grade point average, scores on state standardized tests, as well as teacher recommendations indicate that they can be successful in an advanced course may register for an AP course.

PCHS students who register for the AP exam are responsible for the full cost of the exam. However, students scoring a 3 or better on the exam will be reimbursed the cost of the exam less a small administrative fee.

There is a seven-day trial period for AP students; those who perform at a “C” Level or below may be counseled to drop the class and enroll in a less challenging course. AP courses were designed to be challenging and to provide an opportunity for acceleration for high school students. These classes will be taught at the level required for making PCHS students competitive with others around the nation who seek advanced placement at college.

Virtual Virginia

PCHS will offer students the opportunity to enroll in Virtual Virginia. Virtual Virginia, which includes the Virginia Virtual Advanced Placement School, provides a variety of Advanced Placement (AP) courses, enabling students to earn college credit.

The Virginia Virtual Advanced Placement School (VVAPS) offers online AP and foreign language courses to students across the commonwealth and nation. The courses utilize the Desire2Learn course management software to maximize the interactivity of each class. Each course contains video segments, audio clips, whiteboard and online discussions as well as text. E-Teachers are available for telephone conversations with students throughout the school day. VVAPS classes offer a rich multimedia learning environment that appeals to a variety of learning styles. VVAPS courses can be scheduled flexibly throughout the day, as courses do not have to be taken in 'real' time.

Students in high schools who meet the prerequisites may enroll through their schools. The deadline for registering students is the end of the first week of school for your district. The deadline for spring semester 4X4 block courses is the first week of the spring semester.

Virtual learning is the new frontier in today’s educational institutions. The technology of the 21st century provides a unique opportunity for educators to reach students who want the experience of Advanced Placement coursework.

Students will be required to sign an **Early College Scholars** Agreement. The Early College Scholars program allows eligible high school students to earn at least 15 hours of transferable college credit while completing the requirements for an Advanced Studies Diploma or an Advanced Technical Diploma. By signing the agreement, students are indicating their commitment to completing the required 15 hours of college credit in high school and earning an advanced diploma. To qualify for the Early College Scholars

GENERAL INSTRUCTIONS

program, a student must: have a “B” average or better, be pursuing an Advanced Studies Diploma, and take and complete college-level course work (i.e. Advanced Placement, International Baccalaureate, Cambridge, or dual enrollment) that will earn at least 15 transferable college credits. Students wanting additional information regarding Virtual Virginia should see Guidance or visit the website www.virtualvirginia.org/.

Dual Enrollment Program

Whenever possible, students shall be encouraged and provided opportunities to take college courses simultaneously for high school graduation and degree credit.

The course(s) must be given by the college for degree credits; hence, no remedial courses will be accepted. New River Community College and Pulaski County High School offer a dual enrollment program taught at the high school. These courses follow the same syllabi and use the same texts as New River Community College. Admission procedures follow requirements of the high school and the community college. Upon successful completion of the course, one weighted high school credit will be awarded and a corresponding number of semester hours of college credit will be awarded by New River Community College. Currently, students are not responsible for paying their own tuition and book fees; however, this is subject to change. Placement testing is required of students before beginning dual enrollment classes through New River Community College. Students must submit their applications for admission to New River before taking the placement tests. Applications can be submitted on the NRCC website under admissions. Placement testing must be completed prior to beginning the dual enrollment course. Students can retake the placement test one time within 12 months of the initial attempt of the Virginia Placement Test (VPT).

Exemptions for Placement Testing

Students are exempt from taking the placement tests if they have taken the SAT and received a score of 500 or above on critical reading and writing and/or 520 or above on math, or if they have taken the ACT and received a combined score of 21 or higher in the English and writing and/or a score of 22 or higher in math.

About the Virginia Placement Test

The VPT is a computerized test composed of two separate assessments, English and math. Each test will take between 2 and 3 hours to complete. Students needing to complete both tests should consider taking them on separate days to avoid fatigue. Individual testing times depend on how long it takes the test taker to answer the questions and how consistently he or she answers the questions. Placement tests are not graded per se; they are simply used to place students into appropriate courses. Students should put their best effort into these tests to demonstrate a readiness to take college-level courses.

VPT English

The English test has two parts: a written essay component and a multiple choice component.

The written essay is more heavily weighted in the total English score. Students should take their time and write a complete essay to the best of their ability. During the essay component, students will be asked to write a well-developed essay response to one of two prompts provided on the test. Computerized help tools such as spell check and auto correct will not be available. Once students start the essay portion, they will need to complete it without leaving, except in a case of extreme need. Multiple choice components - Students will answer 40 multiple-choice questions on reading and writing fundamentals. NRCC’s VPT English MOOC (massive open online course) will help you prepare for the English portion of the placement test. You’ll find modules with drills on writing, analyzing, reading comprehension, vocabulary and grammar, and using sources. More information about the FREE VPT English MOOC can be found at <http://www.nr.edu/students/vpteng.php>.

VPT Math

Students must take a math placement test before enrolling in any math course. (Students who have passed the Algebra I SOL and are not enrolling in a math dual enrollment course can opt out of the VPT Math.) Some other courses such as science and computer science courses also require a qualifying score on the math placement test. Some programs such as nursing require a qualifying score on the math placement test.

Students can use the electronic calculator that is provided as a pop-up window that is part of the mathematics test. The calculator is a basic four function model with a square root button. It appears on all questions except for the section on basic arithmetic. (Most students will not see this part of the test.) We strongly recommend that students who wish to test into Calculus practice with a four function calculator instead of a graphing calculator. Personal calculators of any kind cannot be used. NRCC offers a free online prep course for the Math VPT to help students prepare to do as well as they can on this test.

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The better you do on it, the fewer maths you will have to take. More information about it and how to sign up and use the course can be found at <http://www.nr.edu/math/pdf/VPT-math-postcard.pdf>.

Preparing to take the Virginia Placement Test

When students prepare to take the placement tests, the importance of reviewing material that has previously been studied cannot be over emphasized. The placement test is not an admissions test or an aptitude test. The test measures how well students demonstrate skills and proficiencies which will indicate the courses they are prepared to take. Not reviewing before taking the placement test could prevent students from qualifying for dual enrollment courses. Students are highly encouraged to start the review process early to provide enough time to practice and to build confidence in taking the placement test. This will ensure the most accurate course placement for each student.

Practice Test

Students can take a diagnostic practice test in VPT English, math, or both. Following the practice test, students are able to view their scores and receive feedback on which areas they can benefit from further review.

You can also download a printable set of practice questions. Please see the New River Community College website for details.

DUAL ENROLLMENT COURSES

(Minimum numbers required by NRCC for enrollment)

Pulaski County High School

8130, Advanced Marketing
4315, Biology I
4316, Biology II
3175, Calculus Dual Enrollment
8602, Carpentry II
8603, Carpentry III
8531, Drafting II *Pending*
8532, Drafting III *Pending*
8534, Electricity II
8535, Electricity III
1120, English 12 Dual Enrollment
1121, English 12 II Dual Enrollment
4272, Environmental Science, Dual Enrollment
8331, Health Assisting Careers
2952, History of Western Civilization, Dual Enrollment
8383, Medical Terminology

3170, Pre-Calculus Dual Enrollment
8540, Precision Machining II *Pending*
3191, Statistics Dual Enrollment
2363, US History Dual Enrollment
9062, Virginia Teachers for Tomorrow I
8673, Welding II
8674, Welding III

New River Community College

MKT 100, Marketing
BIO 101, Biology I
BIO 102, Biology II
MTH 271, Applied Calculus
BLD 131 and BLD 132
BLD 133 and BLD 134
CAD 114, Computer Aided Drafting & Design
CAD 120, Intro to Graphic Representation
ELE 111 AND ELE 112
ELE 113 and ELE 114
ENG 111 and ENG 112, English
ENG 243 and ENG 244, ENG Literature
ENV 101, Intro to Environmental Technology I
NUR 27, Nursing Assistant
HIS 101 and 102, History
HIM 111 and HIM 113, Medical Terminology I & Medical Terminology and Disease Processes I
MTH 163, Pre-Calculus I
MAC 106, Machine Shop Operations
MTH 240, Statistics
HIS 121 and HIS 122, US History
EDU 198
WEL 100, Intro to Welding
WEL 123, Shielded Metal Arc Welding

Honors Program

The level and pace of honors courses will be accelerated. Students may enroll in honors classes with a minimum of a B average in that subject area and teacher recommendation. Honors classes are designed to challenge students who are highly motivated. These courses provide students with opportunities to explore subjects at an advanced level of inquiry, using sophisticated equipment and texts when appropriate. Students are expected to take the initiative in pursuing independent reading and class preparation.

Southwest Virginia Governor's School for Science, Mathematics and Technology

The Southwest Virginia Governor's School opened in Pulaski County in the fall of 1989. Students report to the Governor's School in the morning for science, mathematics, and research courses and return to their home high schools for afternoon classes. Students have the opportunity to take dual enrollment classes in math and science to earn college credit through New River Community College. The Governor's School offers a research-based program, field trips to area businesses and industries to observe science and technology in action, interaction with scientists through the lecture series, and an internship program that allows students to become a part of local business or industry. In addition, students also have the opportunity to

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work in research-grade technology labs, pursue independent research, and participate in on-going research projects. Students apply to the program during the spring of their sophomore year. Selection is based on standardized test scores (PSAT and SOL End of Course scores in math and science), GPA, advanced courses taken, teacher recommendations and a writing sample. To be considered for admission to SWVGS, PCHS students must have completed Earth Science, Biology, Algebra I, Geometry, and Algebra II. Interested students should take the PSAT test in October of their sophomore year. Other tools for selection are SOL scores on math and science tests. To review Pulaski County Schools' selection criteria for the Governor's School, please see this Web site: <http://www.pcva.us/swvgs.html>.

Pulaski County Governor's Science, Technology, Engineering and Mathematics (STEM) Academy

The Pulaski County Governor's STEM Academy will provide rigorous academic content concentrating on three career pathways: Engineering and Technology, Production, and Construction. Student learning and achievement will be enhanced through the integration of core academics, a STEM-focused curriculum, applied technology, and increased participation in career and technical student organization leadership events.

The overall goals of the Pulaski County Governor's STEM Academy are to provide students with 21st century, STEM-enriched technological skills and the knowledge necessary to succeed in postsecondary education and in the world of work. This will be accomplished through authentic, rigorous, project-based work while building partnerships with parents and community and business leaders to meet these goals.

The Pulaski County Governor's STEM Academy is designed to give students in grades nine through twelve the opportunity to explore several career paths while incorporating Virginia's Workplace Readiness Skills for the Commonwealth. Career pathways prepare students for programs leading to bachelor's degrees, two-year associate degrees, apprenticeships, and employment.

Students may complete a study of the following courses in the Pulaski County Governor's STEM Academy: Welding I, Welding II-Dual Enrollment, Welding III-Dual Enrollment, Electricity I, Electricity II-Dual Enrollment, Electricity III-Dual Enrollment, Carpentry I, Carpentry II-Dual Enrollment, Carpentry III-Dual Enrollment, Drafting I Pending, Drafting II-Dual Enrollment Pending, Drafting III-Dual Enrollment Pending, Materials and Processes Technology, Manufacturing Systems I, Manufacturing Systems II, Advanced, Criminal Justice I, Criminal Justice II, Engineering Explorations, Engineering Analysis and Applications II, Introduction to Health and Medical Sciences, Medical Terminology- Dual Enrollment, Health Assisting Careers- Dual Enrollment, Precision Machining I and Precision Machining II-Dual Enrollment at New River Community College.

Students must meet the following criteria to be selected for the Pulaski County Governor's STEM Academy:

- Recommendation from a teacher, school counselor, school administrator, or the Academy director
- Complete a Pulaski County Governor's STEM Academy application
- Minimum 2.5 GPA
- Passing scores on the highest Level attained on the English and mathematics Standards of Learning tests
- Complete the New River Community College online application (11th and 12th grade students)

Students who are selected for the Academy will be required to meet the following criteria to complete the program successfully:

- Maintain a minimum 2.5 overall grade-point average
- Recommendation from the Academy program area teacher
- Successfully complete the necessary dual enrollment placement test
- Complete dual enrollment credit courses and earn a "C" or better in the course
- Passing scores on the highest Level attained on the English and mathematics Standards of Learning tests
- Complete courses within a specific pathway in the STEM Engineering and Technology, Architecture & Construction, and Production Career Clusters
- Achieve one or more of the following: an industry certification, at least nine transferrable college credits, or an Associate Degree
- Complete school/community service and complete a Senior Project
- Adhere to the student code of conduct and attendance policies

GENERAL INSTRUCTIONS

Special Education Services

Pulaski County High School, in accordance with state and federal laws, offers a wide range of services for students with special needs. Services for students with speech and language delays, hearing impairments, behavior disabilities, visual impairments, learning and developmental disabilities and physical disabilities are among those available to satisfy Individualized Education Programs (IEPs). Services in technical assessment and transition planning are an integral part of programs for special needs students. Students qualify for these services using criteria established in Public Law 94-142. Referral, testing, and placement services are facilitated by the Exceptional Student Services of Pulaski County Schools.

Career Pathways

Pulaski County Schools is a member of New River Valley Career Pathways Consortium and partners with secondary and post-secondary educators, businesses, and employers. The goal of this program is to provide students information on careers in Virginia and the New River Valley. A “career pathway” is a coherent sequence of rigorous academic and career/technical courses that begin in the 9th grade and can lead to an associate, baccalaureate or further degree, an industry-recognized certificate, and/or licensure.

To help students investigate careers and design their courses of study to advance their career goals, the Virginia Department of Education’s Office of Career and Technical Education has adopted the nationally accepted structure of 16 career clusters, their accompanying career pathways, and their sample career specialties or occupations. Detailed information about Virginia’s Career Clusters Initiative appears at www.doe.virginia.gov/instruction/career_technical/career_clusters.

The 16 Career Clusters

- Agriculture, Food, and Natural Resources
- Architecture and Construction
- Arts, Audio/Visual Technology, and Communications
- Business, Management, and Administration
- Education and Training
- Finance
- Government and Public Administration
- Health Science
- Hospitality and Tourism
- Human Services
- Information Technology
- Law, Public Safety, Corrections, and Security
- Manufacturing
- Marketing, Sales, and Service
- Science, Technology, Engineering, and Mathematics
- Transportation, Distribution, and Logistics

Common Core of Knowledge and Skills

The 16 career clusters and their accompanying 81 career pathways are built on common core of knowledge and skills required for career success in all the occupations included in the cluster. This shared core of knowledge and skills consists of the following elements, which may require different applications in different clusters. (For example, the academic foundations and technical skills needed in architecture and construction differ from those needed in health science.)

- Academic foundations
- Communication
- Problem solving and critical thinking
- Information technology applications
- Systems
- Safety, health, and environment
- Leadership and teamwork
- Ethics and legal responsibilities
- Employability and career development
- Technical skills

The following programs/courses are offered in Career and Technical Education:

Programs

Automotive Body Technology, Automotive Technology
Carpentry
Computer Information Systems
Cosmetology
Criminal Justice
Culinary Arts
Drafting *Pending*
Early Childhood Education
Electricity Technology
Engineering
Manufacturing Systems
Health Assisting Careers
Management and Business Law
Marketing
Plant, Animal, and Natural Resources

Clusters

Transportation, Distributions and Logistics
Architecture and Construction
Business Management and Administration
Human Services
Law, Public Safety, Corrections and Security
Hospitality and Tourism
Science, Technology, Engineering and Mathematics
Education and Training
Architecture and Construction
Science, Technology, Engineering and Mathematics
Science, Technology, Engineering and Mathematics
Health Sciences
Business, Management and Administration
Marketing, Sales and Services
Agriculture, Food, and Natural Resources

Pathways

Facility and Mobile Equipment Maintenance
Construction
Business Information Management
Personal Care Services
Law Enforcement Services
Restaurant, Food and Beverage Services
Engineering and Technology
Teaching and Training
Construction
Engineering and Technology
Engineering and Technology
Therapeutic Services
Management
Marketing
Agriculture

GENERAL INSTRUCTIONS

Programs
 Precision Machining *Pending*
 Television and Media Productions
 Virginia Teachers for Tomorrow

Clusters
 Manufacturing
 Arts, Audio-Video Technology, and Communication
 Education, Training

Pathways
 Production
 Audio and Video Technology and Film
 Teaching, Training

GRADUATION REQUIREMENTS

GRADUATING CLASS OF 2017 and Beyond

Standard Diploma (6 verified credits)

<u>Courses</u>	<u>Credits</u>
English.....	4
Math ¹	3
Science ^{2,5}	3
Social Sciences ^{3,5}	3
Health & PE.....	2
Foreign Language, Fine Arts or Career & Technical Education ⁶ ...	3
Economics & Personal Finance.....	1
Electives ⁴	7
Total.....	26

¹Must be at or above the Level of Algebra I. Shall include at least two course selections from among Algebra I, Geometry, Algebra Functions and Data Analysis, Computer Math, Algebra II or courses above the Level of Algebra and Geometry

²Shall include course selections from at least two different disciplines: Earth Science, Biology, Chemistry, or Physics

³Shall include U.S. and Virginia History, U.S. and Virginia Government, and one World History/Geography course

⁴Courses to satisfy this requirement shall include at least two sequential electives as required by the Standards of Quality. (Requirements for the Standard Diploma)

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

⁶Pursuant to Section 22.1-253.12:4, Code of Virginia, credits earned for this requirement shall include one credit in fine or performing arts or career and technical education.

- ❖ A student must earn a career and technical education credential that has been approved by the Board of Education to graduate with a Standard Diploma. The credential could include, but not be limited to, the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness skills assessment.
- ❖ A student must successfully complete one virtual course, which may be noncredit-bearing, to graduate with a Standard or Advanced Studies Diploma. This requirement is met through PCHS's English 9 courses.
- ❖ Computer Mathematics may be used in conjunction with Algebra I and Geometry to satisfy mathematics graduation requirements if the student also completes a career and technical concentration.

Required verified credits mean that the student must pass the class and must also pass the SOL test required for that class. They are as follows: 2 SOL tests in English, 1 SOL test in Math, 1 SOL test in Science, 1 SOL test in History/Social Studies, and 1 SOL test selected by the student. For the student selected test, a student may utilize additional tests for earning verified credit in computer science, technology, career and technical education, economics, or other areas as prescribed by the board in 8 VAC 20-131-110.

Advanced Studies Diploma (9 verified credits)

<u>Courses</u>	<u>Credits</u>
English.....	4
Math ¹	4
Science ²	4
Social Studies ³	4
Foreign Language ⁴	3
Health & PE.....	2
Fine Arts or Career & Technical Education ...	1
Economics & Personal Finance.....	1
Electives.....	5
Total.....	28

¹Must be at or above the Level of Algebra I. Shall include at least two course selections from among Algebra I, Geometry, Algebra Functions and Data Analysis, Algebra II or courses above the Level of Algebra and Geometry

²Shall include course selections from at least two different disciplines: Earth Science, Biology, Chemistry, or Physics

³Shall include U.S. and Virginia History, U.S. and Virginia Government, and two World History/Geography courses

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

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

GENERAL INSTRUCTIONS

- ❖ A student must successfully complete one virtual course, which may be noncredit-bearing, to graduate with a Standard or Advanced Studies Diploma. This requirement is met through PCHS's English 9 courses.

Required verified credits mean that the student must pass the class and must also pass the SOL test required for that class. They are as follows: 2 SOL tests in English, 2 SOL tests in Math, 2 SOL tests in Science, 2 SOL tests in History/Social Science, and 1 SOL test selected by the student. For the student selected test, a student may utilize additional tests for earning verified credit in computer science, technology, career and technical education, economics, or other areas as prescribed by the board in 8 VAC 20-131-110.

Applied Studies Diploma

The Applied Studies Diploma will be available to students with disabilities who complete the requirements of their Individualized Education Program and who do not meet the requirements for other diplomas.

Career and Technical Education

The classes that fit into the category of career and technical education are those listed in this curriculum guide under the following headings:

- Agricultural Education
- Business and Information Technology
- Family and Consumer Science
- Career Connections
- Health & Medical Sciences
- Law, Public Safety, Corrections and Security
- Marketing
- Technology Education
- Trade and Industrial Education

Fine Arts

The classes that fit into the category of Fine Arts are those listed in this curriculum guide under the FINE ARTS heading: Art, Band, Choir, and Drama.

Diploma Seals

- Governor's Seal
- Board of Education Seal
- Career and Technical Education Seal
- Advanced Mathematics and Technology Seal
- Excellence in Civics Education
- Governor's STEM Academy Seal
- Seal of Biliteracy

To Earn a Governor's Seal

- Complete the requirements for an Advanced Studies Diploma with a grade point average of 2.75 (B) or above, **and**
- Successfully complete college-level coursework that will earn the student at least nine transferable college credits in Advanced Placement, Dual Enrollment or International Baccalaureate at Pulaski County High School.

To Earn a Board of Education Seal

- Complete the requirements for a Standard or Advanced Studies Diploma with a grade point average of 3.6 (A) or above.

To Earn a Career and Technical Education Seal

- Fulfill the requirements for either a standard or advanced diploma, **and**
- Complete a prescribed sequence of courses in a CTE concentration or specialization, **and**
- Maintain a "B" or better average in CTE courses, **or**
- Pass an exam that confers certification from a recognized industry, trade or professional association, **or**
- Acquire a professional license in a CTE field

To Earn an Advanced Mathematics and Technology Seal

- Fulfill the requirements for either a standard or advanced diploma, **and**
- Satisfy all math requirements for the Advanced Studies Diploma with a "B" average or better, **and**
- Pass an exam that confers certification from a recognized industry, trade or professional association, **or**
- Pass a Board approved exam that confers college-level credit in a technology or computer science area

To Earn an Excellence in Civics Education Seal

- Satisfy requirement to earn a Modified Standard Diploma, a Standard Diploma or an Advanced Studies Diploma, **and**
- Complete Virginia and U.S. History and Virginia and U.S. Government courses with a grade of "B" or higher, **and**

GENERAL INSTRUCTIONS

- Complete 50 hours of voluntary participation in community service or extracurricular activities, such as volunteering for a charitable or religious organization that provides services to the poor, sick or less fortunate; participating in Boy Scouts, Girl Scouts, or similar youth organizations; participating in Junior Reserve Officer Training Corps (JROTC); participating in political campaigns, government internships, Boys State, Girls State or Model General Assembly; and participating in school-sponsored extracurricular activities that have a civics focus. Any student who enlists in the United States military prior to graduation will be deemed to have met this community service requirement.
- Have good attendance and no disciplinary infractions as determined by local school board policies

To Earn a Governor’s STEM Academy Seal

- Maintain a minimum 2.5 overall grade-point average, **and**
- Recommendation from the Academy program area teacher, **and**
- Successfully complete the necessary dual enrollment placement test,
- Complete dual enrollment credit courses and earn a “C” or better in the course,
- Passing scores on the highest level attained on the English and mathematics Standards of Learning tests,
- Complete courses within a specific pathway in the STEM Engineering and Technology, Architecture & Construction, and Production Career Clusters,
- Achieve one or more of the following: an industry certification, at least nine transferrable college credits, or an Associate Degree,
- Complete school/community service; and complete a Senior Project **and**
- Adhere to the student code of conduct and attendance policies

To earn the Board of Education’s Seal of Biliteracy

- Students must demonstrate proficiency in English and at least one other language and meet additional criteria established by the Board. For purposes of this article, "foreign language" means a language other than English, and includes American Sign Language
- Earn a Board of Education-approved diploma, **and**
- Pass all required End-of-Course Assessments in English reading and writing at the proficient or higher level, **and**
- Be proficient at the intermediate-mid level or higher in one or more languages other than English, as demonstrated through an assessment from a list to be approved by the Superintendent of Public Instruction.

END OF COURSE TESTING

In accordance with the Standards of Accreditation for Virginia public schools, Pulaski County High School administers “End of Course” examinations in those courses so designated by the Standards. End of Course testing is a factor in determining the final grade. Students must take an End of Course examination in the following courses upon completion of instruction for that course.

Social Studies:

- World History to 1500 AD/World Geography
- World History 1500 AD to Present/World Geography
- United States History

Mathematics:

- Algebra I Part 2
- Algebra I
- Geometry Part 2
- Algebra II
- Geometry

Science:

- Earth Science
- Biology
- Chemistry

English:

- Writing Test for English 11 and AP
- Reading, Literature and Research Test for English 11 and AP
- Writing and Reading Test for AP English Language and Composition

GENERAL INSTRUCTIONS

STUDENT-SELECTED VERIFIED CREDIT IN CAREER AND TECHNICAL EDUCATION

A student-selected verified credit is a credit for a course that includes a test approved by the Virginia Board of Education. A student must:

- Complete the requirements for a standard diploma or an advanced diploma, **and**
- Successfully complete a course sequence that prepares one to earn a Board approved industry certification or state license, **and**
- Successfully complete the assessment required by the certifying or licensing agent

INDUSTRY CERTIFICATIONS AND LICENSURE

Successful completion of these programs in the 2016-17 school year may allow students to be eligible for a state license, or state approved industry certifications, such as Workplace Readiness Skills for the Commonwealth Examination, or specific certifications as listed below:

- **Advanced Marketing** - Workplace Readiness Skills for the Commonwealth
- **Agricultural Education** - Workplace Readiness Skills for the Commonwealth
- **Automotive Body Technology II** - Workplace Readiness Skills for the Commonwealth/Skills USA
- **Automotive Technology II** - National Automotive Students Skills Standards Assessment/ASE/NATEF/Skills USA
- **Carpentry II** - Workplace Readiness Skills for the Commonwealth
- **Computer Information Systems II (CIS)** - Microsoft Office Specialist - MOS
- **Cosmetology II** - Virginia Cosmetology State Board (Licensure)/Skills USA
- **Criminal Justice II – Workplace Readiness Skills for the Commonwealth**
- **Culinary Arts and Restaurant Management II** - National Restaurant Association Pro-Start & Serv-Safe Certifications
- **Drafting II** - Workplace Readiness Skills for the Commonwealth/Skills USA
- **Early Childhood Education and Services II** - Workplace Readiness Skills for the Commonwealth
- **Electricity II** - Workplace Readiness Skills for the Commonwealth/Skills USA
- **Engineering Analysis and Applications II** - Workplace Readiness Skills for the Commonwealth
- **Health Assisting Careers** - Certified Nursing Assistant (CNA Licensure)
- **Manufacturing Systems II, Advanced** – MIT Examination
- **Precision Machining II – Workplace Readiness Skills for the Commonwealth**
- **Television and Media Production II** - Workplace Readiness Skills for the Commonwealth
- **Welding II** - Workplace Readiness Skills for the Commonwealth/AWS Examination

COURSE DESCRIPTIONS

AGRICULTURAL EDUCATION

INTRODUCTION TO AGRISCIENCE

8006 (1 credit)

Grade Level: 9, 10

Prerequisite: None

Students in this course will learn about agriscience through hands-on labs in the areas of: agricultural mechanics, plant science, animal science, forestry, wildlife and food science. This includes activities such as: constructing a woodworking project, growing your own plants, performing arc welding processes, making beef jerky, interacting with small and large animals and participating in field trips. This course emphasizes leadership and personal skills through participation in the student organization, FFA.

INTRODUCTION TO ANIMAL SYSTEMS

8008 (1 credit)

Grade Level: 10, 11, and 12

Prerequisite: Intro to Agriscience

Students develop competencies in each of the major areas of the Animal Systems career pathway including animal nutrition, reproduction, breeding, care, and management. Students also learn agricultural mechanics skills including woodworking, welding, electrical principles and plumbing. This course emphasizes leadership and personal skills through participation in the student organization, FFA.

AGRICULTURAL STRUCTURAL SYSTEMS ENGINEERING

8017 (1 credit)

Grade Level: 10, 11, and 12

Prerequisite: Intro to Agriscience

This course is designed for students interested in working in a lab setting. Instruction in agricultural structural systems will provide students with the knowledge and skills necessary to consider a career in constructing agricultural and building systems. Instruction will focus on the specific components of building systems and on developing leadership and career skills.

ADVANCED AGRICULTURAL CONCEPTS

8073 (1 credit)

Grade Level: 11, 12

Prerequisite: Agricultural Structural Systems Engineering or Animal Systems

Students in Agriscience IV will learn agricultural skills needed for rural or urban living. Areas of instruction include meat grading and selection, maintenance of lawns and gardens, and the study of plumbing, electrical wiring, and carpentry fundamentals. This course emphasizes leadership and personal skills through participation in the student organization, FFA.

EQUINE MANAGEMENT

8080 (1 credit)

Grade Level: 9, 10, 11, and 12

Prerequisite: None

In this course students will be introduced to the fundamentals of basic horse production, including handling, care, health, nutrition, genetics, and fertility and judging. Students will participate in various off-campus learning activities.

COURSE DESCRIPTIONS

SMALL ANIMAL CARE I

8083 (1 credit)

Grade Level: 9, 10

Prerequisite: None

Students learn how to care for and manage dogs, cats, and rabbits, focusing on instructional areas in animal health, nutrition, reproduction, evaluation, training, and showmanship. Course content also includes instruction in the tools, equipment, and facilities for small animal care, and provides activities to foster leadership development. FFA activities are included.

SMALL ANIMAL CARE II

8084 (1 Credit)

Grade Level: 10, 11, and 12

Prerequisite: Small Animal Care I

This course allows students to continue their education in the care and management of small animals. This course focuses on the care of reptiles, rodents, fish, birds, and amphibians, as well as further instruction in grooming dogs and cats. Students will also begin to perform basic health care functions for animals. Potential careers in the small animal care industry are also examined. FFA activities are included.

VETERINARY SCIENCE

8088 (1 credit)

Grade Level: 11, 12

Prerequisite: Small Animal Care I

Students will develop job and technical skills needed to succeed in postsecondary education and a career in veterinary medicine or a related occupation. Course content will include both instructional and practical experiences to gain career skills in health and handling of animals with instruction in the use of tools, equipment, and facilities for veterinary medicine. Business management, leadership, and FFA activities are included.

OUTDOOR RECREATION, PARKS AND TOURISM SYSTEMS MANAGEMENT

8043 (1 credit)

Grade Level: 9, 10, 11, and 12

Prerequisite: None

This course is designed for students with an interest in natural resources as it applies to the management of recreational areas such as state parks and campgrounds. Course content includes instruction in managing the environment, including air, soil, water, and forest resources. Additional topics include wildlife, fisheries, renewable energy resources, and leadership development. Students will participate in outdoor lessons, field trips, and hands-on instruction. FFA activities are included.

HORTICULTURE SCIENCES

8034 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: None

In this course, students develop the necessary knowledge, skills, habits, and attitudes for entry-level employment and advancement in areas such as floriculture, landscape design, greenhouse operation, nursery plant production, and turf management. They receive instruction in using soil and other plant-growing media and in identifying, propagating, and growing horticultural plants in the greenhouse and land laboratory. Instruction is provided in safety practices and leadership development.

HORTICULTURE II (Floriculture)

8038 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Horticulture Sciences

Students learn the basics of the horticulture plant production industry. Instruction includes the science of plant production as well as marketing and business management. Plant material identification and floral design taught in this course prepare the

COURSE DESCRIPTIONS

student for an entry-level position in the floriculture industry. Participation in FFA activities provides leadership development opportunities.

BUSINESS AND INFORMATION SYSTEMS

ACCOUNTING I

6320 (1 credit)

Grade Level: 10, 11, and 12

Prerequisite: Algebra I

**This course will not be offered 2016-2017, see page 5.*

Students study the basic principles, concepts, and practices of the accounting cycle. Students learn fundamental accounting procedures using a manual and an electronic system.

ECONOMICS AND PERSONAL FINANCE

6120 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: None

Students learn how to navigate the financial decisions they must face and to make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living independently, and inheritance. Development of financial literacy skills and an understanding of economic principles will provide the basis for responsible citizenship and career success. Upon successful completion of the course, students will take the Workplace Readiness for the Commonwealth Examination.

COMPUTER INFORMATION SYSTEMS I

6612 (1 credit)

Grade Level: 9, 10, 11, and 12

Prerequisite: Keyboarding - minimum grade of "C"

This class is highly recommended for college bound students. This class provides a good foundation for the computer class that is a general requirement in college. Students will gain a thorough background in Microsoft Office software. See information about Microsoft User Specialist certification in the description of Computer Information Systems II.

COMPUTER INFORMATION SYSTEMS II

6613 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Computer Information Systems I

This course is a continuation of Computer Information Systems I. This class covers a more advanced study of the software. Advanced levels of spreadsheets, database, PowerPoint, and word processing (including desk-top publishing) will be taught. Students will be using Microsoft Office. Upon successful completion of this course, students will be required to take the IC3 and/or MOS certification exams.

KEYBOARDING

6152 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: None

This course is designed for students to develop and enhance touch typing skills for entering data into the computer. Students are also introduced to microcomputer technology and business applications using word processing, spreadsheets, databases, and presentation software. These software packages are commonly used in most classes to complete projects during their high school career.

COURSE DESCRIPTIONS

OFFICE SPECIALIST

6740 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: Teacher recommendation

This course is designed to help special populations progress until prepared to transfer into other business courses. Students develop skills in areas including keyboarding, word processing, office procedures, and records management.

ENGLISH

ENGLISH COURSE SEQUENCES			
<u>Academic Sequence</u>	English 9 → English 10	→ English 11*	→ English 12
<u>Honors Sequence</u>	English 9 Honors → English 10 Honors	→ English 11 Honors* → AP English Language and Composition*	→ English 12 Honors → English 12 Dual Enrollment → English 12 II Dual Enrollment → Advanced Placement English Literature and Composition
*End-of-course test required			

ENGLISH 9

1092 (1 credit)

Grade Level: 9

Prerequisite: None

English 9 Academic continues the student’s development in reading comprehension, writing skills, and vocabulary. The study of literature includes units in a wide range of literary genres such as short stories, novels, nonfiction, drama, and poetry. Students develop their skills in speaking, listening and writing by using literature as a basis for discussion. The study of grammar is applied to the students’ writing in a process that involves prewriting and revising. This course prepares the student to demonstrate mastery of specific state and local standards in English language skills (SOLs). Computer-assisted instruction will be an integral part of the program, including word processing and Internet use.

ENGLISH 9 HONORS

1094 (1 credit)

Grade Level: 9

Prerequisite: Middle school teacher recommendation

English 9 Honors is a course designed to challenge the advanced student through in-depth reading and analysis. The level and pace of honors courses will be accelerated. Students may enroll in honors classes with a minimum of a B average in that course and teacher recommendation. The study of various literary genres is achieved through a humanities approach with an integration of composition and language study. Vocabulary, grammar, mechanics, and usage skills are refined through application in oral and written expression. Emphasis is on writing with clarity and precision in various rhetorical modes. The course prepares the student to demonstrate mastery of advanced performance standards in language arts as well as state and local standards in English language skills. Computer-assisted instruction will be an integral part of the program, including word processing and Internet use.

ENGLISH 10

1102 (1 credit)

Grade Level: 10

Prerequisite: English 9

English 10 Academic continues the student’s development in reading comprehension and writing skills. Composition includes personal writing in all of the rhetorical modes, and research-based writing as it pertains to problem solving and decision making. Differences in literary genres are taught through a thematic approach to the study of a broad range of literature. Language study, vocabulary development, and oral communication skills are integrated with composition. Critical reading and thinking skills are an integral part of the course. Computer-assisted instruction will be an integral part of the

COURSE DESCRIPTIONS

program, including word processing and Internet use. This course prepares the student to demonstrate mastery of specific state and local standards in English language skills (SOLs).

ENGLISH 10 HONORS

1104 (1 credit)

Grade Level: 10

Prerequisite: English 9 Honors or teacher recommendation

The course in English 10 Honors is designed to meet the needs of the academically talented English student. In keeping with the nature of an honors course, this English class promotes academic excellence and is taught at a rigorous pace. Students may enroll in honors classes with a minimum of a B average in that course and teacher recommendation. An integration of composition, literature, and language study is achieved through a thematic approach with emphasis on the humanities. All language skills are examined extensively, and skills are practiced with intensity. Skills to enhance abilities in problem solving, decision making, and effective writing are emphasized. Computer-assisted instruction will be an integral part of the program, including word processing and Internet use. This course prepares the student to demonstrate mastery of specific state and local standards in English Language Skills (SOLs).

ENGLISH 11

1112 (1 credit)

Grade Level: 11

Prerequisite: English 10

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

English 11 Academic builds on the language arts skills and concepts acquired in previous grades. Composition includes personal literary analysis, research-based writing, critical papers using documented sources and personal and creative writing in all rhetorical modes. The skills of critical reading and thinking are applied to the study of American literature and become the basis for proficiency in language, vocabulary and oral communication. Independent reading and collaborative study are vital to this course and provide a base for discussion, analysis and writing. Computer-assisted instruction will be an integral part of the program, including word processing and Internet use.

ENGLISH 11 HONORS

1114 (1 credit)

Grade Level: 11

Prerequisite: English 10 Honors or teacher recommendation

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

This course is designed to meet the needs of the academically talented English student. In keeping with the nature of an honors course, this English class promotes academic excellence and is taught at a rigorous pace. Students may enroll in honors classes with a minimum of a B average in that course and teacher recommendation. An integration of composition, literature, and language study is achieved through a survey of American literature with emphasis on the fine arts and humanities. The composition strand includes literary analysis, research-based writing, critical papers using documented sources, personal and creative writing in all rhetorical modes, and writing for publication. Skills of critical reading and thinking form a basis for language study, vocabulary competence, and effective oral communication. Independent reading and collaborative study are crucial to the outcome of this course where expectation for excellence is high. Computer-assisted instruction will be an integral part of the program, including word processing and Internet use.

ADVANCED PLACEMENT ENGLISH - LANGUAGE AND COMPOSITION

1196 (1 credit)

Grade Level: 11

Prerequisites: English 10 and teacher recommendation

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

Advanced Placement English 11 engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and enables them to become effective and confident writers in their college courses across the curriculum and in their professional and personal lives. The content of the course will teach students to read primary and secondary source material carefully, to synthesize material in their own compositions, and to cite source material using conventions recommended by professional organizations. Students will draw from their reading, as well as from

COURSE DESCRIPTIONS

personal experience and observation, in order to produce effective expository, analytical, and argumentative writing. This course will also incorporate the teaching of all skills necessary to master the Grade 11 Virginia Standards of Learning. For information regarding Advanced Placement courses, see page 7 in this Course Catalog.

ENGLISH 12

1122 (1 credit)

Grade Level: 12

Prerequisite: English 11

English 12 Academic requires application of reading comprehension and writing skills developed in previous grade levels. Composition in this course includes personal writing in all the rhetorical modes, research-based writing, and responses to literature. While the focus of the course is on British literature, Western and Third World literature may be included in either chronological or thematic approaches. Language study, vocabulary development, and oral communication skills are integrated with composition and literature. Critical reading and thinking skills are an integral part of the course. The ultimate goal is to assure proficiency in English language skills and to provide a base of knowledge necessary to be academically competitive. Computer-assisted instruction will be an integral part of the program, including word processing and Internet use.

ENGLISH 12 HONORS

1178 (1 credit)

Grade Level: 12

Prerequisite: English 11 Honors or teacher recommendation

This course is designed to meet the needs of the academically talented English student. In keeping with the nature of an honors course, this English class promotes academic excellence and is taught at a rigorous pace. Students may enroll in honors classes with a minimum of a B average in that course and teacher recommendation. An integration of composition, literature, and language study is achieved through a survey of British literature. Western and Third World literature may be included in either chronological or thematic approaches. Language study, vocabulary development, and oral communication skills are integrated with composition and literature. Independent reading and collaborative study are crucial to the outcome of this course where expectation for excellence is high. Computer-assisted instruction will be an integral part of the program, including word processing and Internet use.

ENGLISH 12 DUAL ENROLLMENT

1120 (1 high school credit) (NRCC classes English 111 and English 112, 6 college credits)

Grade Level: 12

Prerequisite: English 11 and successfully pass the Virginia Placement Test in English

This course is designed to allow the student who is academically advanced to enroll in a college course during his senior year in high school. This course develops writing ability for study, work, and other areas of writing based on experience, observation, research, and reading of selected literature. It guides students in learning as a writing process: understanding audience and purpose, exploring ideas and information, composing, revising, and editing. The course will support writing by integrating, composing, revising, and editing as well as by integrating experiences in thinking, reading, listening, and speaking.

ENGLISH 12 II DUAL ENROLLMENT

1121 (1 high school credit) (NRCC classes English 243 and English 244, 6 college credits)

Grade Level: 12

Prerequisite: A letter grade of C or better in English 12 Dual Enrollment

This course is designed to allow the student who is academically advanced to enroll in a college course during his senior year in high school. This course studies major English works from the Anglo-Saxon period to the present, emphasizing ideas and characteristics of the British literary tradition. It involves critical reading and writing. Those students who successfully complete the course will receive dual credit through Pulaski County High School and New River Community College.

COURSE DESCRIPTIONS

ADVANCED PLACEMENT ENGLISH -LITERATURE AND COMPOSITION

1127 (1 credit)

Grade Level: 12

Prerequisite: English 11 and teacher recommendation

Advanced Placement English 12 is a college level course for students with exceptional ability. The content of the course carefully examines notable works from world literature. Through such a study, the students will sharpen their awareness of language and their understanding of the writer's craft. The approach to the study of various literary forms is interpretive, analytical, comparative and critical. This course prepares the student to demonstrate mastery of specific state and local standards in English language skills (SOLs). AP English 12 requires a summer reading component. For information regarding advanced placement courses, see page 7 in this Course Catalog.

YEARBOOK I, II, AND III

1028/1029/1030 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Application required

This course will provide an opportunity for students to produce a yearbook, the Cougar Pinnacle, for the school. Students will participate in activities, discussions, and assignments that are designed to increase their journalistic knowledge while they assemble photographs and reports that tell the story of one year at Pulaski County High School. The course will focus on yearbook financing, photography, composition, production and publication.

FAMILY & CONSUMER SCIENCES

EARLY CHILDHOOD EDUCATION is a two-year program for students interested in careers and occupations that focus on young children. The program includes the study of child growth and development of preschoolers and the preparation of preschool learning activities. Students are provided work-related experiences in the lab at the PCHS Childcare Center. Co-curricular activities are provided through participation in FCCLA (Family, Career, and Community Leaders of America).

INTRODUCTION TO EARLY CHILDHOOD EDUCATION AND SERVICES

8234 (1 credit, 1 block)

Grade Level: 9, 10

Prerequisite: TB test verification must be provided. Student application and three written teacher recommendations that are positive and favorable of the student's qualifications to work with young children are required. Since the students will be working with young children, past discipline records and attendance will be checked and used in the consideration of student enrollment.

Students focus on the principles of child growth and development, development of self-concepts and building self-esteem, appreciation of diversity, learning experiences for children, principles of guiding children in a positive manner, healthy and safe environments, career development, and careers related to early childhood professionals through hands-on exploration, projects, and group learning. The cooperative education method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.

EARLY CHILDHOOD EDUCATION AND SERVICES I

8285 (2 credits, 2 blocks)

Grade Level: 11, 12

Prerequisite: TB test verification must be provided. Student application and three written teacher recommendations that are positive and favorable of the student's qualifications to work with young children are required. Since the students will be working with young children, past discipline records and attendance will be checked and used in the consideration of student enrollment.

Students prepare to be primary providers of home, family, or institution-based child care services by focusing on the planning, organizing, and conducting of meaningful play and learning activities, child monitoring and supervision, record keeping and referral procedures. Critical thinking, practical problem solving and entrepreneurship opportunities within the field of early childhood education are emphasized. Supervision of the instructor is required. Students prepare for continuing

COURSE DESCRIPTIONS

education leading to careers in early childhood fields such as medical, healthcare and social services. Students combine classroom instruction and supervised on-the-job training in the PCHS on-site lab.

EARLY CHILDHOOD EDUCATION AND SERVICES II

8286 (2 credits, 2 blocks)

Grade Level: 11, 12

Prerequisite: Early Childhood Education I and TB test verification must be provided.

Students will focus on occupational skills needed by personnel employed in early childhood-related fields such as education, medical/health care, social services, counseling, psychology and entrepreneurship. Work-based learning experiences are under the supervision of the instructor. Critical thinking, practical problem solving and entrepreneurship opportunities within the field of childhood education are emphasized. Students combine classroom instruction and supervised on-the-job training in the PCHS on site lab. Upon completion of this course students will be required to take American Association of Family and Consumer Sciences (AAFCS) Assessment.

EARLY CHILDHOOD EDUCATION INTERNSHIP (Individual Development)

8210 (1 credit)

Grade Level: 11, 12

Prerequisite: Successful completion of Early Childhood Education II

Students are prepared for job entry skills. This course also targets students considering a career in early childhood education.

CULINARY ARTS

CULINARY ARTS is a program which utilizes the National Restaurant Association Education Foundation's ProStart Curriculum. The courses expose students to industry-based training materials backed by the expertise of education professions, which allow students to explore career options and develop academic and workplace skills, prepare for post-secondary education and employment, and receive classroom instruction, hands-on laboratory work, and on-the-job training. Students who successfully pass the Level One and Level Two ProStart Exams, complete the PCHS culinary arts course sequence (CA&RM I and CA&RM II), and document at least 400 hours of industry experience (200 unpaid, 200 paid) are eligible for the NRA's ProStart National Certificate of Achievement. This certificate may provide students with college credit and/or scholarship money to continue their culinary arts training.

INTRODUCTION TO CULINARY ARTS

8250 (1 credit, 1 block)

Grade Level: 9, 10 and 11- Priority given to 9th and 10th graders

Prerequisite: None

The competencies focus on identifying and exploring the individual careers within the food service industry. Units of study include food science and technology, dietetics and nutrition services, diverse cuisines and service styles, current trends, food and beverage production and preparation, and food safety and sanitation. Co-curricular activities are provided through participation in FCCLA (Family, Career and Community Leaders of America).

CULINARY ARTS & RESTAURANT MANAGEMENT I

8275 (2 credits, 2 blocks)

Grade Level: 10, 11

Prerequisite: Application and Algebra I, Computer Math, or concurrently enrolled

Instructional units include: Welcome to the Restaurant and Foodservice Industry, Keeping Food Safe, Workplace Safety, Professionalism, Equipment and Techniques, Stocks, Sauces, and Soups, Communication, Management Essentials, Fruits and Vegetables, Serving Your Guests, Potatoes and Grains, and Building a Successful Career in the Industry. Students apply concepts learned in classroom instruction to the operation of a food establishment: The Cougar Den. Students are required to participate in the co-curricular chapter of the Family, Career and Community Leaders of America (FCCLA). Students are required to take the ProStart Level One Exam.

COURSE DESCRIPTIONS

CULINARY ARTS & RESTAURANT MANAGEMENT II

8276 (2 credits, 2 blocks)

Grade Level: 11, 12

Prerequisite: Successful completion of Culinary Arts I, Culinary Instructor Recommendation

Instructional units include: Breakfast Food and Sandwiches, Nutrition, Controlling Foodservice Costs, Salads and Garnishing, Purchasing and Inventory, Meat, Poultry, and Seafood, Marketing and the Menu, Desserts and Baked Goods, Sustainability in Foodservice, and Global Cuisines. Students apply concepts learned in classroom instruction to the operation of a food establishment: The Cougar Cafe. Students have the option of applying into the Foodservice Cooperative Education program with work release credit. Students are required to participate in the co-curricular chapter of the Family, Career and Community Leaders of America (FCCLA). Students are required to take the ProStart Level Two Exam.

CULINARY ARTS SPECIALIZATION

8279 (1 credit, 1 block)

Grade level: 11, 12

Prerequisite: Successful completion of Culinary Arts & Restaurant Management II, Culinary Instructor Recommendation

The Culinary Arts Specialization curriculum provides students with continuing opportunities to obtain comprehensive knowledge of the food service industry as well as to expand their technical skills in a food service specialty. Students explore careers and refine their skills in implementing safety and sanitation standards, applying nutritional principles, planning menus, using business and math skills, and selecting and maintaining food service equipment. Depending on the options available in the locality, students specialize in one of the following four areas: Baking and Pastry Food- Preparation Techniques, Catering/Banquet Food- Preparation Techniques, Restaurant Operation Techniques, Quantity Food- Preparation Techniques. The curriculum continues to place a strong emphasis on science and mathematics knowledge and skills as it emphasizes critical thinking, practical problem solving, and entrepreneurial opportunities within the field of culinary arts.

EDUCATION AND TRAINING

TEACHER CADET PROGRAM

VIRGINIA TEACHERS FOR TOMORROW I

CTE DUAL ENROLLMENT – EDU 198

9062 (1 credit, 1 block) (NRCC 3 credits)

Grade Level: 11, 12

Prerequisites: TB test verification, NRCC Placement Examination, NRCC Application

A student application and three written teacher recommendations pertaining to the student’s qualifications and character as a future educator will be required prior to admission. Because a minimum understanding of Algebra and the ability to communicate in and evaluate writing are a licensor requirement for Virginia teachers, an acceptable applicant will possess a GPA of at least 3.0 or greater. Integrity and work ethic, being central components to the curricula, past discipline records and attendance will be verified and used in the consideration of student enrollment.

Virginia Teachers for Tomorrow (VTfT) fosters student interest, understanding, and appreciation of the teaching profession and allows secondary students to explore careers in education. Students build a foundation for teaching, learn the history, structure and governance of teaching, apply professional teaching techniques in the VTfT classroom, and reflect on their teaching experiences. Additional educational leadership opportunities are offered through the student organization, Future Educators Association.

FINE ARTS

ART



COURSE DESCRIPTIONS

FOUNDATIONS ART I

9120 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: None

In this course, students will be introduced to the elements of art and the principles of design. They will acquire the ability to use new techniques and a variety of media used in art. They will learn the basic fundamentals of drawing, painting, ceramics and sculpture. Throughout the semester the elements of drawing are emphasized, and students complete sketchbook assignments in addition to work done in class. Each student maintains a notebook of classroom activities, art history and art vocabulary in addition to the sketchbook. Student participation in the school exhibit is required. There is a \$12.00 art fee for this class. Students may take this course once for credit.

FOUNDATIONS ART II

9130 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: Foundations Art I

Students will build on the fundamentals learned in Foundations I and create more complex projects in drawing, painting, ceramics, and sculpture. Students are required to keep a sketchbook of weekly drawing assignments. An overview of art history, vocabulary and techniques is included with each media area. Student participation in school exhibits is required. There is a \$12.00 art fee for this class. Students may take this course once for credit.

DRAWING (Studio Level)

9131 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Foundations Art I and Foundations Art II

The students enrolled in the Drawing Class will further develop their skills from the Foundation Levels. Pencil, charcoal, colored pencil, marker and oil pastel are the primary media used. Seeing and recording accurately through exercises in drawing objects, environments and figures are heavily stressed. The drawing study also will emphasize the process of giving form to ideas and the exploration of composition and media as means of expression. Student participation in school exhibits is required. There is a \$12.00 art fee for this course. Students may take this class twice for credit.

PAINTING (Studio Level)

9132 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Foundations Art I and Foundations Art II

Painting is a studio course that will enable the student to explore in depth the development of painting and its various techniques. Watercolors, tempera and acrylics are the primary media used. Emphasis will be placed on the application of value and tonal studies using a variety of wet and dry media. Student participation in school exhibits is required. There is a \$12.00 art fee for this course. Students may take this class twice for credit.

SCULPTURE (Studio Level)

9133 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Foundations Art I and Foundations Art II

This course is designed as an in-depth study of only three-dimensional art. Students will begin explorations into materials and process, as well as tools and construction methods. Projects focus on 3-D formal applications of line, plane, form, and space, with investigations of positive/negative, interior/exterior, volume/mass, multiple repetition, scale, color/surface, texture, etc. In regards to ceramics, students will learn how to construct pieces by using pinch, coil, slab and wheel thrown methods. Further works will involve assemblage, altered art, jewelry, stained glass, plaster, weaving and paper mache. Student participation in school exhibits is required. There is a \$12.00 art fee for this class. Students may take this course twice for credit.

COURSE DESCRIPTIONS

MUSIC

ADVANCED CONCERT CHOIR

9281 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Audition, previous choral experience

Advanced Concert Choir members will study and perform traditional and contemporary choral literature. This class will also contain instruction in music theory, correct singing techniques and performance skills. Performances will include school and community events, competitions at the district and state level and choral concerts. Out-of-class rehearsals and performances are required.

CONCERT CHOIR

9280 (1 credit)

Grade Level: 10, 11 and 12 (Fall Semester), 9, 10, 11 and 12 (Spring Semester)

Prerequisite: Interest in choral music

This class will contain instruction in the area of general choral music, beginning theory and performance techniques. Both traditional and contemporary choral literature will be taught and performed. Performances will include school and community events and choral concerts. Out-of-class rehearsals and performances are required.

FRESHMAN CHORUS

9279 (1 credit)

Grade Level: 9 (Fall Semester)

Prerequisite: Interest in choral music

This class is specifically for all freshman choral students and will contain instruction in the area of general choral music, beginning theory and performance techniques. Both traditional and contemporary choral literature will be taught and performed. Performances will include school and community events and choral concerts. Out-of-class rehearsals and performances are required.

LADIES ENSEMBLE

9294 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Audition and previous choral experience

This female choral group will study and perform a combination of jazz, blues, traditional and contemporary choral literature while, at times, adding choreography. General music theory and performance techniques will also be included. Performances will include school and community events, competitions at district and state Levels and choral concerts. Out-of-class rehearsals and performances are required.

BAND

BEGINNING INSTRUMENTAL BAND

9231 (1 credit)

Grade: 9, 10, 11 and 12

Prerequisite: None

This course would be available to students wishing to learn to play a musical instrument (wind, percussion, or guitar) or learn a secondary instrument. This course will focus on basic to intermediate skills associated with reading, writing, playing, and analytically listening to music. This course can be repeated for credit.

COURSE DESCRIPTIONS

CONCERT BAND

9230 (1 credit)

Grade: 9, 10, 11 and 12

Prerequisite: Previous band experience

This course is open to any band instrumental musician (wind and percussion) interested in learning basic to intermediate fundamental skills of playing and making music. Students should have past band experience prior to signing up for this course. This course can be repeated for credit.

MUSIC THEORY

9227 (1 credit)

Grade: 10, 11 and 12

Prerequisite: Prior band, choir, or music experience

This course is open to any student wishing to learn basic to intermediate music theory fundamentals and skills required to read and create music. Student will learn to read, write, listen, and analyze music.

SYMPHONIC BAND

9229 (1 credit)

Grade 9, 10, 11 and 12

Prerequisite: Audition and previous band experience

This course is open to any band instrumental musician (wind and percussion) interested in learning intermediate to advanced fundamental skills of playing and making music. Students should have past band experience prior to signing up for this course. This course can be repeated for credit.

THEATRE ARTS

ADVANCED THEATRE ARTS I AND II

1440/1441 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Students are accepted through application and audition only. Theatre Arts Exploration is required.

This course will provide instruction for students who want to continue studies in acting and production techniques. Students will participate in dramatic productions and projects; explore various career opportunities related to drama and practice theatrical skills as a studio performing company. Students will have the opportunity to perform at school and community events. There will be at least one Theatre Arts production from this class per semester. Out-of-class performances and rehearsals may be called.

THEATRE ARTS EXPLORATION

1410 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: None

This course will introduce students to basic theatre arts with acting focus and the following units of study: evaluation of performance, acting, pantomime and movement, diction and oral interpretation, play analysis, production, dramatic literature, and theatre history. Performances will include school and community events. First semester will focus on movement/dance, singing, basic performance skills, and presentation of monologues. Second semester will culminate with a performance of a play. Out-of-class rehearsals and performances may be called.

STAGE CRAFT AND SET DESIGN I, II

1430/1431 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: None, although Theatre Arts Exploration is recommended

This course will introduce students to many of the technical aspects of play production including set design and construction, lights, sound, special effects, costumes and properties, as well as both stage and house management. Students learn by doing.

COURSE DESCRIPTIONS

This class prepares production aspects of main stage productions. The student continues aspects of the beginning course with emphasis in advanced design work in the 11th and 12th grade.

FOREIGN LANGUAGE

FRENCH I

5110 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: None

This is a course for students who wish to begin the study of French. It is taught with emphasis on all four major language skills: listening, speaking, reading and writing. The development and practice of good pronunciation, the building of basic vocabulary, and fundamental understanding of grammar/usage are essential. Skills leading to fluent communication are emphasized. The history, culture and geography of France, and the French-speaking world are introduced.

FRENCH II

5120 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: Minimum grade of C in French I

Development of the four basic skills of listening, speaking, reading and writing is continued. Increased emphasis will be placed on writing.

FRENCH III

5130 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Minimum grade of C in French II

Students will maintain their language proficiency by continuing to use the vocabulary and structure that have been previously learned. Grammar and vocabulary are expanded to raise the level of proficiency required for self-expression both in oral and written forms. There is increased emphasis on reading.

FRENCH IV

5140 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Minimum grade of C in French III

This course is strongly recommended for students who plan to continue French in college or for those who hope to be exempted from the college language requirement. Students will continue the development of the four major language skills: listening, speaking, reading and writing. There is increased emphasis on composition and on reading modern French literature.

SPANISH I

5510 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: None

This course is for students who wish to begin the study of Spanish. It is taught with emphasis on all four major language skills: listening, speaking, reading and writing. The development and practice of good pronunciation, the building of basic vocabulary, and the fundamental understanding of grammar/usage are essential. Skills leading toward fluent communication are emphasized. The history, culture and geography of Spain and Latin America are introduced.

COURSE DESCRIPTIONS

SPANISH II

5520 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: Minimum grade of C in Spanish I

Development of the four basic skills of listening, speaking, reading and writing is continued. Proficiency with the language will be developed through class work and independent practice.

SPANISH III

5530 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Minimum grade of C in Spanish II

Students will maintain their language proficiency by continuing to use the vocabulary and structures that have been previously learned. Grammar and vocabulary are expanded to raise the level of proficiency required for self-expression both in oral and written forms.

SPANISH IV

5540 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Minimum grade of C in Spanish III

Grammar will be reviewed throughout the course, and vocabulary building will be continued on an advanced level to aid in the increased emphasis on reading, writing, and speaking in Spanish in critical responses to and appraisals of literature, articles, movies, art, history, and culture. The course will be conducted in Spanish.

HEALTH & MEDICAL SCIENCES

INTRODUCTION TO HEALTH & MEDICAL SCIENCES

8302 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: None

This course introduces the student to the many and varied opportunities in the health care field. The healthcare field is one of the fastest growing career areas with great job potential for students. Students study the history of medicine, medical ethics, and how health care is delivered and financed in the United States as well as in other parts of the world. The student will be able to research job opportunities available in the health care field. The students will learn basic health care skills that can be used in any medical field: aseptic techniques, medical terminology, emergency and safety procedures, vital signs and the opportunity to become certified in First Aid and Basic CPR by the American Red Cross.

This course is available with an additional option (STEM Academy) which can be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM Academy options.

- **STEM ACADEMY**

Grade Level: 10, 11 and 12

Prerequisite: Complete a Pulaski County Governor's STEM Academy Application, possess a minimum GPA of 2.5, passing scores on the highest level attained on the English and Mathematics SOL tests.

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

COURSE DESCRIPTIONS

HEALTH ASSISTING CAREERS

8331 (2 credits, 2 blocks)

Grade Level: 11, 12

Prerequisite: Successful completion (minimal “C” average) of Introduction to Health and Medical Sciences 8302

Students explore opportunities in the health care field by developing basic skills common to several assisting careers. HAC is a two-block course that qualifies students to take the Virginia State Certification Exam for Nursing Assistants (CNA). They study body structure and function, principles of health, microbes, and disease, and an overview of the health and patient care system. Supervised work-based learning for a minimum of 40 hours as part of the course in health care settings is managed by the health and medical sciences education teacher. Students will provide hands-on patient care with instructor supervision.

This course is available with two additional options (dual enrollment & STEM Academy) which can both be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM academy options.

- **CTE DUAL ENROLLMENT**

(NRCC 5 credits)

Grade Level: 11, 12

Prerequisite: Successful completion (minimal “C” average) of Introduction to Health and Medical Sciences 8302, NRCC Placement Examination and NRCC Application. Acceptance for this class is by application process.

This course is dual enrolled with NRCC NUR 27 Nurse Aide I – 5 credits.

- **STEM ACADEMY**

Grade Level: 11, 12

Prerequisite: Successful completion (minimal “C” average) of Introduction to Health and Medical Sciences 8302, NRCC Placement Examination and NRCC Application. Acceptance for this class is by application process.

This course is dual enrolled with NRCC NUR 27 Nurse Aide I – 5 credits. This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

MEDICAL TERMINOLOGY

8383 (1 credit, 1 block)

Grade Level: 11, 12

Prerequisite: Recommended Introduction to Health and Medical Sciences

Medical Terminology is designed to help students learn health care language. Topics are presented in logical order, beginning with each body system's anatomy and physiology and progressing through pathology, diagnostic procedures, therapeutic interventions, and finally pharmacology. Students learn concepts, terms, and abbreviations for each topic.

This course is available with two additional options (dual enrollment & STEM Academy) which can both be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM academy options.

- **CTE DUAL ENROLLMENT**

(NRCC 6 credits)

Grade Level: 11, 12

Prerequisite: Recommended Introduction to Health and Medical Sciences and NRCC Placement Examination

This course is dual enrolled with NRCC HIM 111 and HIM 113 - 6 credits.

- **STEM Academy**

Grade Level: 11, 12

Prerequisite: Complete a Pulaski County Governor's STEM Academy Application, possess a minimum GPA of 2.5, passing scores on the highest level attained on the English and Mathematics SOL tests

COURSE DESCRIPTIONS

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

HEALTH AND PHYSICAL EDUCATION

Students will be permitted to take only one physical education class or physical education elective class per semester, as recommended by the Virginia Department of Education.

HEALTH & PHYSICAL EDUCATION 9

7300 (1 credit)

Grade Level: 9

Prerequisite: None

This course is required for graduation. The physical education program will be centered on fitness and team sports. Activities will include units in flag football, basketball, softball, volleyball, soccer, badminton, tennis, and physical fitness testing. Health units include first aid, prevention and control of disease, fitness, and family life education.

HEALTH & PHYSICAL EDUCATION 10

7400 (1 credit)

Grade Level: 10

Prerequisite: Health & Physical Education 9

This course is required for graduation. The physical education program will be centered on fitness and individual and team sports. Activities will include units in tennis, football, aerobics, indoor recreational activities, volleyball, softball, basketball, and physical fitness testing. The classroom phase of driver education will be given during the 1st nine weeks of each semester. Students must pass the classroom phase of driver education before taking the behind-the-wheel phase. Health instruction and family life education will be taught during the 2nd nine weeks of the semester.

HEALTH & PHYSICAL EDUCATION ELECTIVES

These courses will not count as Health and Physical Education credit for graduation requirements.

PERSONAL FITNESS COURSES MISSION STATEMENT

The goal of the Personal Fitness courses is to engage the student in meaningful sport and life specific skills. The progression is designed to handle the various fitness and ability levels of each student enrolled. The curriculum is set to maximize each student's body and mind for better performance both on the field and optimal lifelong health. The differentiating levels allow the student to develop a portfolio of their charted progress. This data will follow the student into each course level for a snapshot to individual growth. The application of the data will be used in weight training, core strength training, flexibility, balance and overall improved mobility which will provide an opportunity for the student to monitor, measure, and chart personal progress and growth.

PERSONAL FITNESS LEVEL 1

7681 (1 credit)

Grade Level: 9, 10 11, and 12

Prerequisite: None

This course is designed to assess and use data from testing measures of individual fitness levels. This level is designed for the beginner in weight room etiquette and technique, running form, core/balance exercises and flexibility training. The student will receive instruction in the development of total body fitness. Components will be implemented in weight room activities and agility exercises, core conditioning and flexibility drills that translate directly to fitness level. This course will begin building a skill-related portfolio that will motivate and encourage a life of optimal health. Each student will maintain a personal profile as a means to measure progress and growth.

COURSE DESCRIPTIONS

PERSONAL FITNESS LEVEL 2

7682 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: Successful completion of Level 1

This course is a continuation of the previous level with an emphasis on increased intensity in weight training and interval agility training. The course will be designed to continue mastery of weight training technique, dynamic and static stretching, aerobic and anaerobic exercises and core and balance training. This course will begin to offer a diverse group of skills to enhance sports specific skills and life skill activities. This course will also use testing to determine the student's appropriate and individual growth. Each student will maintain a personal profile as a means to measure progress and growth.

PERSONAL FITNESS LEVEL 3

7683 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Successful completion of Level 2

This course is designed to further enhance skills learned and developed in Level 2. This level will begin to increase intensity and load to sports specific training. The course will require the participant/student to engage knowledge from the previous two levels of instruction. This will allow the individual to begin maximizing both body and mind. The students will develop an understanding of skills learned and how they directly relate to particular sport and life skills. Exercises will be geared toward the individual sport in relation to strength training, flexibility, core strengthening, balance, and mobility. The course will offer testing that will be added to the student skill portfolio. Each student will maintain a personal profile as a means to measure progress and growth.

PERSONAL FITNESS LEVEL 4

7684 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Successful completion of Level 3

This course is designed to enhance individual fitness levels to student athletes with a diverse and dynamic program related to sport and life skills. The course will focus on speed, explosion, flexibility, and balance. The basis of training will be retrieved from student portfolios developed in previous levels of fitness and conditioning courses. This course has an increased workload and performance expectation. Data will be gathered to assess head to toe fitness levels. The student will be responsible for developing his/her individual ideas tailored to their specific sport and life skill. Each student will maintain a personal profile as a means to measure progress and growth.

PERSONAL FITNESS LEVEL 5

7685 (1 credit)

Grade Level: 11 and 12

Prerequisite: Successful completion of Level 4

This course is designed to further enhance skills learned and developed in Level 4. Students will learn more about which specific muscle groups are worked with each exercise taught. Students will leave the class knowing the different muscle groups, how to work that muscle group, and proper form for each exercise. Students will see a difference in their muscle tone and weight gain/loss depending on their wanted outcome.

PERSONAL FITNESS LEVEL 6

7686 (1 credit)

Grade Level: 11 and 12

Prerequisite: Successful completion of Level 5

This course is designed to further enhance skills learned and developed in Level 5. Students will review materials taught in Level 5 and continue learning more about staying physically fit throughout one's lifetime by staying involved in weight training and cardiovascular endurance exercises. They will learn more about maxing out and learn to create their own workouts once introduced to the different exercises in previous level classes.

COURSE DESCRIPTIONS

PERSONAL FITNESS LEVEL 7

7687 (1 credit)

Grade Level: 12

Prerequisite: Successful completion of Level 6

The course focus is to maximize strength, flexibility, agility, core, and cardiovascular endurance. Movement and exercise will include weight training, plyometric exercises, and endurance running. This course places emphasis on perfection of form and technique while increasing load training. Students will also be encouraged and motivated to continue through advanced skill additions to their portfolios. Growth will be assessed with testing in the aforementioned designated areas. Each student will maintain a personal profile as a means to measure progress and growth.

PERSONAL FITNESS LEVEL 8

7688 (1 credit)

Grade Level: 12

Prerequisite: Successful completion of Level 7

This course offers the most diverse and intense interval training in all areas of speed acceleration, change of direction, agility, muscular endurance, flexibility, and mobility. The course is designed for an optimal fitness level built in previous levels and displayed in student portfolios. The final grade for this level will include a research paper that will include elements of the sport, total body workout, and nutrition plan. The foundation and design of this course will contain elements specific to his/her sport and lifelong interest. Each student will maintain a personal profile as a means to measure progress and growth.

SPORTS, EXERCISE, AND HEALTH SCIENCE

7660 (2 credits, 2 blocks)

Grade Level: 11 and 12

Prerequisite: Chemistry or concurrently enrolled in Chemistry

This class is designed for students interested in fields such as athletic training, physical therapy, medicine, fitness, exercise physiology, kinesiology, nutrition, and other sports medicine-related fields. The class will include class work and practical hands-on application in the following areas: anatomy and physiology, nutrition, conditioning, injury pathology, prevention, treatment, and rehabilitation of sports injuries, taping and wrapping of injuries, first aid/CPR, emergency procedures and sports medicine careers. This course can be taken concurrently with Personal Fitness.

MARKETING EDUCATION

INTRODUCTION TO MARKETING

8110 (1 credit, 1 block)

Grade Level: 9, 10, 11 and 12

Prerequisite: None

Students gain an understanding of the importance of marketing in today's society. They develop skills related to interpersonal communication, self-presentation, economics, marketing, sales, employability, career discovery, and ethical decision-making.

This course reinforces Mathematics, Science, English, and History Standards of Learning (SOLs). Computer/technology applications and DECA activities support this course. DECA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events.

MARKETING

8120 (2 credits, 1 block)

Grade Level: 11, 12

Prerequisite: None

Marketing students will receive an introductory level of the concepts, ideas, techniques and methods of the world of advertising/marketing. Students develop skills in the areas of personal selling, advertising, human relations, product/service technology and related instructional areas. Students must work the required 396 hours of on-the-job training. Students enrolled in Advanced Marketing will have the opportunity for early release.

COURSE DESCRIPTIONS

**ADVANCED MARKETING
CTE DUAL ENROLLMENT
8130 (2 credits, 1 block) (NRCC 3 credits)**

Grade Level: 11, 12

Prerequisite: Marketing, grade “C” or higher and NRCC Placement Examination

Advanced Marketing is a junior/senior level course designed to provide students with skills for advancement to supervisory and management positions in the field of marketing. Students must work the required 396 hours of on-the-job training. This is a dual enrollment class which is classified as NRCC, MKT 100; students are required to sign up with NRCC to take this class. Students will be required to take the National Professional Certification in Customer Service Exam at the completion of the class. Students enrolled in Advanced Marketing will have the opportunity for early release.

MATHEMATICS

MATHEMATICS COURSE SEQUENCES				
Algebra I Part I	→ Algebra I Part II*	→ Geometry Part 1	→ Geometry Part II*	→ Algebra, Functions and Data Analysis or Computer Math
Algebra I*	→ Geometry A*	→ Algebra II*	→ Probability/Statistics	
Algebra I*	→ Geometry A*	→ Algebra II*	→ Advanced Algebra/Trigonometry → Pre-Calculus Dual Enrollment	
Geometry A*	→ Algebra II*	→ Advanced Algebra/Trigonometry → Pre-Calculus Dual Enrollment	→ Calculus → Probability/Statistics → Calculus Dual Enrollment → Statistics Dual Enrollment	
Geometry (H)*	→ Algebra II (H)*	→ Calculus → Pre-Calculus Dual Enrollment → Probability/Statistics	→ AP Calculus → Calculus Dual Enrollment → Calculus Dual Enrollment → Statistics Dual Enrollment	
Math electives, Algebra I Part I and Geometry Part I do not count as a math credit but will count as general elective credits.				
*End-of-course test required				

**ALGEBRA I PART I
3131 (1 elective credit)**

Grade Level: 9, 10

Prerequisite: None

Algebra I Part I is the first semester of a two-semester sequence. Basic operations in arithmetic, directed numbers, polynomials, equations, properties, and graphing are studied. Graphing calculator instruction will be used to reinforce algebra concepts in this course.

**ALGEBRA I PART II
3132 (1 credit)**

Grade Level: 9, 10, 11

Prerequisite: Algebra I Part I

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

Algebra I Part II will continue the study of topics begun in Algebra I Part I and extend the study to include fundamental operations with algebraic functions, equations, graphing, linear equations, inequalities in two variables, and quadratic equations. A student who successfully completes Algebra I Part II may continue to Geometry Part I or Geometry with teacher recommendation. Graphing calculators will be used in this course to enforce algebraic concepts.

COURSE DESCRIPTIONS

ALGEBRA I

3130 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: Pre-Algebra experience, teacher recommendation

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

Algebra I is the study of real numbers for solving 1st and 2nd degree equations, inequalities, linear equations, and systems of equations. This course will include the study of polynomials, factoring, and graphing. Graphing calculators will be used in this course to enforce algebraic concepts.

ALGEBRA, FUNCTIONS, AND DATA ANALYSIS

3136 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: Algebra I Part II or Algebra I

Algebra, Functions, and Data Analysis will build a deeper understanding of mathematical concepts learned in Algebra I. The connection will be shown between algebra and statistics. Students will learn how to problem solve, communicate and reason mathematically, make mathematical connections, create and interpret mathematical representations and modes, and make efficient and appropriate use of technology to solve problems.

ALGEBRA II

3135 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: Algebra I or Algebra I Part I and II, and Geometry

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

Algebra II will include the studies introduced in Algebra I and extend the study to include linear and quadratic equations, rational and radical expressions, the complex number system, conic sections, functions, and other related topics. The course is necessary for those students who wish to continue in academic high school mathematics and to establish a strong background in mathematics for college. Graphing calculators will be used in this course to enforce algebraic concepts.

ALGEBRA II HONORS

3137 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: Algebra I or Algebra B, Part I and II, and Geometry

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

Algebra II Honors will include the studies introduced in Algebra I and extend the study to include linear and quadratic equations, rational and radical expressions, the complex number system, conic sections, functions, and other related topics. The course is necessary for those students who wish to continue in academic high school mathematics and to establish a strong background in mathematics for college. In addition to these concepts, the honors course will also include studies in exponential and logarithmic functions, n^{th} degree polynomials, sequences and series, probability, permutations and combinations, matrices and other related topics. Graphing calculators will be used in this course to enforce algebraic concepts.

ADVANCED ALGEBRA/TRIGONOMETRY

3163 (1 credit)

Grade Level: 11, 12

Prerequisite: Geometry A and Algebra II

After a comprehensive review of Advanced Algebra topics, this course will provide a complete study of all the major topics of plane trigonometry. Real life applications of trigonometry are distributed throughout the course. Attention is also given to establishing connections between trigonometry and other areas of mathematics, particularly algebra and geometry.

COURSE DESCRIPTIONS

PRE-CALCULUS DUAL ENROLLMENT

3170 (1 high school credit) (NRCC college credit in MTH 163, 3 college credits)

Prerequisite: Algebra II and successfully pass the Virginia Placement Test in math

Grade Level: 11, 12

Pre-Calculus Dual Enrollment is designed to be a rigorous class. Students move rapidly through trigonometry and advanced algebra concepts. This course will cover college level algebra, matrices, and algebraic, exponential, and logarithmic functions. Students will follow the course guide and will use the texts of New River Community College for Pre-Calculus I or Math 163.

CALCULUS

3171 (1 credit)

Grade Level: 11, 12

Prerequisite: Advanced Algebra/Trigonometry or Pre-Calculus Honors

Calculus will include topics equivalent to freshman calculus in college.

The student enrolled may work to achieve the maximum that could qualify him/her to apply for advanced placement in college calculus. Topics will include functions, derivatives, differentiation, and integration. A student should have excelled in the prerequisite courses before he/she enrolls in calculus. Emphasis will be on applications of real life problems.

CALCULUS DUAL ENROLLMENT

3175 (1 high school credit) (NRCC college in MTH 271, 3 college credits)

Grade Level: 11, 12

Prerequisite: A letter grade of C in Pre-Calculus Dual Enrollment

Applied Calculus will cover matrices, limits, continuity, differentiation of algebraic and transcendental functions with applications and an introduction to integration. Students will follow the course guide and will use the texts of New River Community College for Applied Calculus I or Math 271.

ADVANCED PLACEMENT CALCULUS

3177 (1 credit)

Grade Level: 12

Prerequisite: Calculus

In Advanced Placement Calculus, students will be challenged to achieve their maximum potential and are prepared to take the Advanced Placement examination. Topics include functions, limits, and continuity, derivatives and differentiation, definite and indefinite integral, integration, infinite series, vectors and other topics that will challenge academically gifted students. There will be no attendance-based exam exemption in AP courses. For information regarding Advanced placement courses, see page 7 in this Course Catalog.

COMPUTER MATHEMATICS

3184 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: None

This course is intended to provide students with experiences solving mathematical problems using computer programming techniques and the graphing calculator. Students will use these tools to solve problems in the areas of business, personal finance, leisure activities, sports, and probability and statistics. In addition, students will use programming techniques to determine problem-solving strategies and analyze data in the form of charts, graphs and tables.

GEOMETRY PART I

3141 (1 elective credit)

Grade Level 9, 10, 11 and 12

Prerequisite: Algebra I Parts I and II or Algebra I

Geometry Part I is the first semester of a two-semester sequence. Basic geometry terminology, polygons, translations, logical reasoning, and area and perimeter of plane figures are studied.

COURSE DESCRIPTIONS

GEOMETRY PART II

3142 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: Geometry Part I

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

Geometry Part II will continue the study of topics begun in Geometry Part I and extend the study to include area and volume of polyhedrons, parallel lines, congruent and similar triangles, parallelograms, and circles.

GEOMETRY A

3143 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: Algebra I or Algebra I Part II. Students should have earned at least a C average in prior Algebra courses.

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

Geometry A will include the study of the concepts of plane, space, and coordinate geometry. An extensive study is made of lines, planes, angles, and their relationships. Emphasis is placed on deductive proofs, construction of figures using basic, geometric tools, and applications of geometric concepts to practical situations.

GEOMETRY A HONORS

3145 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: Algebra I with a minimum of B average and teacher recommendation

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

Geometry A Honors will include the study of the concepts of plane, space, and coordinate geometry. An extensive study is made of lines, planes, angles, and their relationships. Emphasis is placed on construction of figures using basic geometric tools and applications of geometric concepts to practical situations. The honors course also includes deductive proofs and moves at an accelerated pace.

PROBABILITY/STATISTICS

3190 (1 credit)

Grade Level: 11, 12

Prerequisites: Geometry and Algebra II

Students will be collecting, representing, and processing data to enhance their social awareness and career opportunities. Subtopics and activities include simulations and/or sampling to estimate probabilities, fitting curves, testing hypotheses, and drawing inferences. They will solve problems involving uncertainty through experimental probability and create and interpret probability distributions (norm curve and properties). Students will make informal observations about the likelihood of events to interpret and judge the validity of statistical claims.

STATISTICS DUAL ENROLLMENT

3191 (1 high school credit) (NRCC college credit in MTH 240, 3 college credits)

Grade Level: 11, 12

Prerequisite: A letter grade of C in Pre-Calculus Dual Enrollment

This course presents an overview of statistics, including descriptive statistics, elementary probability, probability distributions, estimation, hypothesis testing, and correlation and regression. Students will follow the course guide and will use the texts of New River Community College for Statistics or Math 240.

COURSE DESCRIPTIONS

SERVICE LEARNING – MATH PEER TUTORING

2502 (1 credit) (elective credit)

Grade Level: 11, 12

Prerequisite: Application and successful completion of the math course to be tutored

Peer tutoring is a course in which students are given an opportunity to help other students with their class work so they too can excel in their education. Tutoring is not only a worthy service students can provide for the PCHS community, but also a means to prove themselves as responsible and caring individuals. As a peer tutor, a student will tutor other students in a course they have previously completed successfully at PCHS. This course can offer valuable experiences for students who are interested in a teaching career. Students who wish to enroll in this course are required to obtain or possess the following:

- Teacher recommendation
- Good interpersonal communication skills and ease in relating to peers from varying educational, cultural, and social backgrounds
- High level of responsibility, reliability and punctuality
- Good attendance
- A GPA of 3.0 or higher
- Completion and submission of the tutor application form to the Math Department Chairperson

SCIENCE

SCIENCE COURSE SEQUENCES			
<u>Academic Sequence</u>			
Earth Science*	→ Biology*		→ Environmental Science → Biology II/Ecology
<u>Honors Sequence</u>			
Earth Science Honors*	→ Biology Honors*	→ Chemistry*	→ Environmental Science → Physics → Meteorology → Biology I Dual Enrollment → Biology II Dual Enrollment → Environmental Science Dual Enrollment
* End of course test required			

BIOLOGY

4300 (1 credit)

Grade Level: 10, 11

Prerequisite: None

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

This course is an integrated approach to life science that will utilize the study of certain chemistry, physics, and environmental science principles necessary for the study of this fundamental science. The Virginia Standards of Learning is the base for this course.

BIOLOGY HONORS

4301 (1 credit)

Grade Level: 10, 11

Prerequisite: Successful completion of previous science courses

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

Biology Science Honors is an advanced alternative to Biology Academic. The course will differ from the academic version in textbook, scope and depth of topics covered; a mastery of more abstract processes is expected. A comprehensive research paper and course project will be required. The content, concepts, and required technology approximate those found in the description of Biology Academic.

COURSE DESCRIPTIONS

BIOLOGY II/ECOLOGY

4407 (1 credit)

Grade Level: 11, 12

Prerequisite: Biology

This course is designed for those students who do not meet the math requirement for Chemistry. This course will not meet the requirements for an Advanced Studies Diploma. Biology II/Ecology is a study of the science that affects our everyday lives. The emphasis is on basic scientific principles, ecology, biology, chemistry and the development of laboratory techniques.

BIOLOGY I DUAL ENROLLMENT

4315 (1 high school credit and 4 college credits BIO 101)

Grade Level: 12

Prerequisite: A minimum grade of C in Chemistry and successfully pass the Virginia Placement Test

This course explores fundamental characteristics of living matter from the molecular level to the ecological community with emphasis on general biological principles. It introduces the diversity of living organisms, their structure, function and evolution. The course is designed to allow the student who is academically advanced to enroll in a college course during his or her senior year. Students will follow the course guide and will use the texts of New River Community College for Biology 101.

BIOLOGY II DUAL ENROLLMENT

4316 (1 high school credit and 4 college credits BIO 102)

Grade Level: 12

Prerequisite: A minimum grade of C in Dual Enrollment Biology I

This course explores fundamental characteristics of living matter from the molecular level to the ecological community with emphasis on general biological principles. It introduces the diversity of living organisms, their structure, function and evolution. The course is designed to allow the student who is academically advanced to enroll in a college course during his or her senior year. Students will follow the course guide and will use the texts of New River Community College for Biology 102.

CHEMISTRY

4410 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Algebra II (or be concurrently enrolled in Algebra II)

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

This course is an academic study of the chemical world, emphasizing experimentation to obtain verifiable data, stoichiometry and an understanding of conservation of energy and matter. Concentration is on problem-solving, understanding and recording data, comprehensive analysis of results, and observation of the chemical world. Students will investigate many environmental, biological, and geologic phenomena as part of their study of chemistry. Laboratory experiences are an essential component of the course and shall occupy at least 50% of the instructional time.

EARTH SCIENCE

4200 (1 credit)

Grade Level: 9

Prerequisite: None

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

The main emphasis of this course is earth-space science and will use the Earth Science Standards of Learning. These standards specifically require the study of certain mathematics, chemistry, and physics concepts as well as several biological principles. Earth Science students will use computer technology and sensors and probes as tools to collect data from classroom and field experience. At least fifty percent of instructional time should be devoted to laboratory investigations. Emphasis is on problem-solving techniques and data collection in order to draw conclusions related to the physical environment.

COURSE DESCRIPTIONS

EARTH SCIENCE HONORS

4201 (1 credit)

Grade Level: 9

Prerequisite: Middle school teacher recommendation

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

Honors Earth Science is an advanced course that covers the topics found in Earth Science Academic. A more rigorous approach is expected; the textbook, scope and depth of processes covered will be more challenging to the academically talented student. A comprehensive research paper is a requirement. The course content and technology requirements approximate those found in the description of Earth Science Academic.

ENVIRONMENTAL SCIENCE

4271 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Earth Science and Biology

A field-based course will deal with the many environmental issues facing the world today; environmental science will include the collection of data in our own area as well as throughout the world via an Internet connection. The use of notebook computers, probes, and cameras will facilitate data assessments and assist in providing recommendations of possible solutions to environmental problems both locally and worldwide. Students will become more informed and concerned citizens and will participate in several projects aimed at environmental awareness and preservation. A research project or paper will be a requirement.

ENVIRONMENTAL SCIENCE DUAL ENROLLMENT

4272 (1 high school credit) (NRCC college credit in ENV 101, 3 college credits)

Grade Level 11, 12

Prerequisites: Successful completion of previous science courses to include Chemistry and successfully pass the Virginia Placement Test

College Level Environmental Science provides an investigative approach to the interrelationships of the natural world through the study of fundamental concepts, principles, and methodologies of environmental science, with an emphasis on inquiry and critical thinking skills which include problem solving and experimental investigations. Upon completion of the course, the student will better understand the environmental issues facing his/her generation on a local as well as global level, and make informative decisions that will affect the environmental future of our planet. For information regarding Dual Enrollment courses, see page 9 in this Course Catalog.

METEOROLOGY

4255 (1 credit)

Grade Level: 11, 12

Prerequisite: Successful completion of previous classes, including Chemistry

This is a survey course that looks in detail at the science dealing with the lower atmosphere. Special emphasis is placed on computer technology in making weather observations, data collection, and forecasting. Students will utilize a computerized weather station as well as resources on the Internet to analyze present weather conditions and formulate forecasts. Course content will include topics strongly tied to forecasting, such as instrumentation, large-scale weather systems, winds, and precipitation. Special emphasis will be placed on severe weather and students will track the events as they unfold both locally and across the U.S. Students successfully completing this course may apply for a position on a two-week storm-chasing trip to the Great Plains with the instructor and forecasters from the National Weather Service.

PHYSICS

4510 (1 credit)

Grade Level: 11, 12

Prerequisite: Trigonometry or Pre-Calculus Honors

Physics is based upon the use of mathematical statements to interpret physical data. Students will be expected to use current technology (computers, sensors, probes, graphs, spreadsheets, and simulations) to fulfill the new Standards of Learning that

COURSE DESCRIPTIONS

include the ability to use instruments to collect and report physical data. Physics is the study of the universal laws of nature. Motion, force, heat, light, sound, electricity, magnetism, and modern physics will be studied. Students will develop skills in problem solving, creative thinking, critical analysis, and hypothesis evaluation through mental and physical activities that include hands-on experiences at least 50% of the instructional time.

SOCIAL STUDIES ELECTIVES

INTRODUCTION TO PHILOSOPHY

**This course will not be offered 2016-2017, see page 5.*

2850 (1 credit)

Grade Level: 11, 12

Prerequisite: None

Considering a variety of sources, this course is an introduction to the ideas and issues growing out of the history of philosophical inquiry in such areas as metaphysics (the nature of reality), epistemology (the nature of knowledge), ethics (the nature of moral values and principles), philosophy of religion (the nature of religious belief), and aesthetics (the nature of beauty).

PSYCHOLOGY

2900 (1 credit)

Grade Level: 11, 12

Prerequisite: None

Psychology is an introduction to the study of the mind and observed behaviors. It is a course designed to help students understand themselves and others. One of the primary goals of this course is to aid individuals in the quest to understand what constitutes healthy and unhealthy relationships. Topics also include essential concepts in brain function, motivation, learning, personality, human development, and social/abnormal psychology.

This course is similar to many of the introductory classes found in colleges and universities. Instruction will be provided through daily notes, lecture, and group activities. At the conclusion of this course, students will demonstrate an understanding of the field of psychology, along with an understanding of social and cultural determinants of behavior.

ADVANCED PLACEMENT PSYCHOLOGY

2902 (1 credit)

Grade Level: 12

Prerequisite: Grade of "B" in Psychology or minimum of 3.6 GPA

Advanced Placement Psychology is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students will be exposed to psychological facts, principles, and phenomena associated with each of the major subfields of psychology. They will also learn about the ethics and methods psychologists use in their science and practices. Topics covered include: statistics, abnormal behavior, cognition, brain studies, as well as many others. The information in this course will be presented in a variety of ways. There will be lectures, notes, class participation projects, research, audio-visual aids, and guest speakers.

The purpose of this course is to provide the student with a learning experience equivalent to that obtained in most college introductory psychology courses. Another goal of this course is to prepare students to take the AP Exam and receive a passing score. A passing score will earn the student a college credit for this class. Due to the subjective nature of this class, students will be exposed to various thinking styles and terminology on a constant basis. It should be understood at the course outset that the expectations of this class are consistent with those of any advanced placement course. Students should expect a workload similar to what they would have if they were to complete this course at the college level. For information regarding Advanced placement courses, see page 7 in this Course Catalog.

COURSE DESCRIPTIONS

HISTORY OF WESTERN CIVILIZATION DUAL ENROLLMENT
2952 (1 high school credit) (NRCC college credit in HIS 101, HIS 102, 6 college credits)
Grade Level: 11, 12
Prerequisite: Successfully pass the Virginia Placement Test in English

This course examines the development of western civilization from ancient times to the present. The first half of the class will end with 1715 A.D.; the second half of the class continues through modern times. Students will follow the course guide and will use the texts of New River Community College for History of Western Civilization 101-102. This is a rigorous course with emphasis on higher level thinking skills.

SERVICE LEARNING

2500 (1 credit)
Grade Level: 11, 12
Prerequisite: None

Service Learning will encourage students to practice community volunteerism after school, on weekends, and during the school day. The objective is to instill a spirit of community activism and involvement that will extend beyond high school into adult life. The Service Learning course is a program open to juniors and seniors interested in helping community agencies or interested in serving as tutors to peers or to younger students in middle schools and elementary schools. Students will describe their intended service program on an application form. All applications will be reviewed for approval by the program coordinator. It is necessary to document a minimum of 135 clock hours to receive a credit.

The purpose of the course will be to provide students an opportunity to investigate ways in which people in a community help each other. For example, the bloodmobile, nursing homes and volunteer services provide essential community services. Students will define an area of interest and make a commitment to an agency serving the community. Developing a good match between a student and an agency will be part of the course. Students will develop skills necessary to fill commitments. Volunteer service offers students an opportunity to use a variety of skills such as communication, recordkeeping, problem solving, planning, synthesis of data, and observation and reporting. It also offers an opportunity to assess personal career interests. Requirements include appropriate preparation prior to agency placement under the supervision of the program coordinator. Students must provide their own transportation.

SOCIOLOGY

2503 (1 Credit)
Grade Level: 11, 12

Sociology is an introduction to the study of the relationship between society, social behavior and human relationships. We will learn about groups and will study how groups influence individuals and society as a whole. We will look at the impact society and culture has on individuals by looking at such topics as violence, deviance, social control, socialization, and personality. One of the primary goals of this class is that students will develop a better understanding of the social forces that can impact their lives and decisions.

SOCIAL STUDIES

SOCIAL STUDIES COURSE SEQUENCES		
<u>Academic Sequence</u>		
World History to 1500/World Geography*	→ U.S. History*	→ U.S. Government
<u>Honors Sequence</u>		
World History to 1500/World Geog. Honors*	→ World History from 1500 to the Present/World Geog. Honors*	
	→ AP European History*	
	→ Advanced Placement U.S. History*	→ Advanced Placement U.S. Government
	→ U.S. History Honors*	
	→ U.S. History Dual Enrollment	→ U.S. Government Honors
Social Studies electives, Introduction to Philosophy, Psychology, AP Psychology, Sociology and Service Learning do not count as Social Studies credits but will count as general elective credits.		
*End-of-course test required		

COURSE DESCRIPTIONS

U.S. GOVERNMENT ACADEMIC

2440 (1 credit)

Grade Level: 12

Prerequisite: U.S. History

The basic survey course in U.S. Government will include the development of government. The course will concentrate on the American political system in its entirety. Emphasis will be placed on students acquiring basic skills and knowledge in order to function as productive citizens.

U.S. GOVERNMENT HONORS

2441 (1 credit)

Grade Level: 12

Prerequisite: U.S. History

This course is an advanced study in U.S. Government which includes the development of the government. It will concentrate on an in-depth study of the American political system in its entirety. The course is tailored to students who desire college preparatory experience.

ADVANCED PLACEMENT U.S. GOVERNMENT

2445 (1 credit)

Grade Level: 12

Prerequisite: U.S. History

Advanced Placement United States Government is offered to seniors who wish to benefit from taking a college-level government course while still in high school. A general focus on the first nine week period is devoted to college-style lecturing and group discussion. The second nine week period will be largely participatory, with much use of critical thinking skills, problem solving, and skills application.

The historical evolution of present-day governmental roles and structures is studied with a concentration on the importance of the Constitution and its interpretations in defining the powers of government. Specifically, the course will be divided into five particular areas. First, the constitution underpinnings of the U.S. government will be reviewed, with an emphasis on democratic theory and philosophy as well as an historical background to the Constitutional Convention. Second, political beliefs and behaviors that have shaped or have been shaped by political parties and political leaders will be discussed. Third, the importance of voting and individual political participation will be studied. Next, the civil freedoms guaranteed to all individuals will be presented. Finally, the largest portion of the AP class will be devoted to the institutions of national government - the Congress, the president, the court systems, and the vitally important, yet largely unfamiliar, fourth "branch" (the bureaucracy) - and how each of those branches help create public policy. For information regarding Advanced placement courses, see page 7 in this Course Catalog.

U.S. HISTORY

2360 (1 credit)

Grade Level: 11

Prerequisite: World History to 1500/World Geography **OR** Honors

EOC Test: Standards of Accreditation require an End of course Test upon completion of this course.

This basic survey course will trace the American experience from the exploration period to current-day trends and social problems. The chronological study of events in our history will be combined with the study of major concepts such as cause and effect, change continuity, and appreciation of cultural heritage.

COURSE DESCRIPTIONS

U.S. HISTORY HONORS

2362 (1 credit)

Grade Level: 11

Prerequisite: World History to 1500/World Geography **OR** Honors and World History 1500 to present/World Geography **OR** Honors

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

This course will follow the recommended state Standards of Learning (SOLs) for content, but will include more in-depth study and outside assignments than standard academic courses. Students will be required to complete research-based projects which may include, but not limited to, journals, portfolios, research projects, essays, etc., using a wide variety of sources. Tests will involve covering the SOLs as well as higher level thinking skills.

ADVANCED PLACEMENT U.S. HISTORY

2319 (1 credit)

Grade Level: 11, 12

Prerequisite: World History to 1500/World Geography **OR** Honors

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

Advanced Placement United States History is offered to juniors whose prior academic success indicates they could benefit from taking a college-level history course while still in high school. This course meets the Virginia Standards of Learning, and it helps prepare the student for the national Advanced Placement U.S. History examination which may qualify him/her for college credit. AP History will cover the history of the United States from the period of colonization through the present. The course explores recurrent themes in our history and stresses the roles of individual Americans in our national development. Particular emphasis will be given to the twentieth century and the expansion of civil rights here at home, as well as the unique impact of America's involvement in world affairs. Because AP History is taught on the college level, students should read and write above grade level. We cover much material quickly, and approximately an hour a night should be devoted to reading, writing, and reviewing of lecture notes. Critical thinking skills are required and will be demonstrated in written essays. A semester portfolio, containing revised samples of student work as well as self-generated assignments, will be a major part of the nine weeks grade. For information regarding Advanced placement courses, see page 7 in this Course Catalog.

U.S. HISTORY DUAL ENROLLMENT

2363 (1 high school credit) (NRCC college credit in HIS 121, HIS 122, 6 semester college credits)

Grade Level: 11

Prerequisite: Successfully pass the Virginia Placement Test in English

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

This course surveys United States history from its beginning to present. This course will follow the recommended state Standards of Learning (SOLs) for content, but will include more in-depth study and outside assignments. This course will examine the development of western civilization from ancient times to the present. Students will follow the course guide and will use the texts of New River Community College for United States History 121 and 122. Tests will involve covering the SOLs as well as higher level thinking skills.

WORLD HISTORY TO 1500/WORLD GEOGRAPHY

2341 (1 credit)

Grade Level: 9

Prerequisite: None

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

The World History to 1500 AD/World Geography combination course is designed to precede the World History to 1500 AD/World Geography combination course to be taken in the 10th grade year. The topics covered shall include a study of early physical and cultural development from the Paleolithic Era and a comparison of selected ancient river civilizations. Students will be required to describe, analyze, and evaluate the history of ancient Greek, Roman, and Egyptian civilizations and their developments. The study of the Middle East, Russia, and the Medieval period of Europe will be highlighted. Students will be able to describe, compare and contrast selected civilizations in Asia, Africa, and the Americas from both historical and geographical analysis skills by locating and describing civilizations from 4000 BC to 1500 AD. Further, students will use maps, globes, and other media tools to analyze physical and human landscapes.

COURSE DESCRIPTIONS

WORLD HISTORY TO 1500/WORLD GEOGRAPHY HONORS

2343 (1 credit)

Grade Level: 9

Prerequisite: Middle school teacher recommendation

EOC Test: The Standards of Learning required an End of Course Test upon completion of this course.

This course will follow the recommended state Standards of Learning (SOLs) for content, but will include more in-depth study and outside assignments than standard academic courses. Students will be required to complete research-based projects which may include (but not limited to) journals, portfolios, research papers, essays, etc., using a wide variety of sources. Tests will involve covering the SOLs as well as higher level thinking skills.

WORLD HISTORY FROM 1500 TO THE PRESENT/WORLD GEOGRAPHY

2342 (1 credit)

Grade Level: 10

Prerequisites: World History to 1500/World Geography

EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

The World History 1500 AD to the Present/World Geography combination course is designed to follow the World History to 1500 AD/World Geography combination course taken in the 9th grade year. The topics covered during this course will include locations, cultures, and conflicts of the major world empires about 1500 AD; the analysis of social, economic, and political patterns of the late medieval period; as well as the historical developments of the Reformation period and the impact of European expansion in the Americas, Africa, and Asia. The Industrial Revolution will be studied in detail. Students will be able to demonstrate skills in historical research and geographical analysis by analyzing physical and human landscapes using maps, globes, and other media tools. Regional development, economic interdependence, and the forces of cooperation and conflict as they influence geography will also be included in the unit of study.

WORLD HISTORY FROM 1500 TO THE PRESENT/WORLD GEOGRAPHY HONORS

2344 (1 credit)

Grade Level: 10

Prerequisite: World History to 1500/World Geography **OR** Honors

EOC Test: The Standards of Learning require an End of Course Test upon completion of this course.

This course will follow the recommended state Standards of Learning (SOLs) for content, but will include more in-depth study and outside assignments than standard academic courses. Students will be required to complete research-based projects which may include (but not limited to) journals, portfolios, research papers, essays, etc., using a wide variety of sources. Tests will involve covering the SOLs as well as higher level thinking skills.

ADVANCED PLACEMENT EUROPEAN HISTORY

2399 (1 credit)

Grade Level: 10

Prerequisite: World History to 1500/World Geography **OR** Honors **AND** Advance Proficient Pass Rate on SOL

EOC Test: The Standards of Learning require an End of Course Test upon completion of this course.

This course will follow the recommended state Standards of Learning (SOLs) for content, but will include more in-depth study and outside assignments than standard academic courses. This course covers the history of Europe from 1450 to the present. The political, military, economic, geographic, cultural, and social factors that underpin the modern political order are examined in depth. Students will develop critical thinking skills through analysis and interpretation of primary and secondary sources. Research and writing skills will be emphasized, as will technique for mastery of document-based questions. This course is designed to prepare the student for a comprehensive year-end Advanced Placement examination.

COURSE DESCRIPTIONS

TECHNOLOGY EDUCATION

MATERIALS & PROCESSES TECHNOLOGY (Investigating)

8433 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: None

Delving into material properties, manufacturing technology, and mechanical engineering, students in this project-based class will gain experience and understanding in each of the following materials and processes: wood, plastic, ceramics, metal, and additive and subtractive manufacturing and natural resources stewardship. Each student will study in a well-equipped production shop to create group and individual projects based on Virginia Department of Education competencies with emphasis placed on self-sufficiency, craftsmanship and career awareness.

This course is available with an additional option (STEM Academy) which can be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM Academy options.

- **STEM ACADEMY**

Grade Level: 9, 10, 11 and 12

Prerequisite: Complete a Pulaski County Governor's STEM Academy Application, possess a minimum GPA of 2.5, passing scores on the highest level attained on the English and Mathematics SOL tests.

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

MANUFACTURING SYSTEMS I

8425 (1 credit) (1 block)

Grade level: 9, 10, 11 and 12

Prerequisite: Materials and Processes Technology

This course provides an orientation to careers in various fields of manufacturing. Emphasis will be placed on manufacturing systems, safety, materials, production, business concepts, and the manufacturing process. Students participate in individual and team activities to create products that demonstrate critical elements of manufacturing.

- **STEM ACADEMY**

Grade level: 9, 10, 11 and 12

Prerequisite: Complete a Pulaski County Governor's STEM Academy Application, possess a minimum GPA of 2.5, passing scores on the highest level attained on the English and Mathematics SOL tests.

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

MANUFACTURING SYSTEMS II, ADVANCED

8427 (1 credit) (1 block)

Grade level: 10, 11 and 12

Prerequisite: Manufacturing Systems I

Students develop an in-depth understanding of automation and its applications in manufacturing. Activities center on flexible manufacturing processes and computer integrated manufacturing (CIM). Students work in teams to solve complex interdisciplinary problems that stem from the major systems in automated manufacturing.

- **STEM ACADEMY**

Grade level: 10, 11 and 12

Prerequisite: Complete a Pulaski County Governor's STEM Academy Application; possess a minimum GPA of 2.5, passing scores on the highest level attained on the English and Mathematics SOL tests.

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

COURSE DESCRIPTIONS

ENGINEERING EXPLORATIONS I

8450 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: Materials & Processes Technology **OR** Technology Foundations **OR** Algebra II

This is the first course of a two-course, project-based pathway that will enable students to examine technology and engineering fundamentals related to solving real-world problems. Students will be exposed to a variety of engineering specialty fields including mechanical, civil, electrical, industrial systems, and related careers. Students will gain a basic understanding of engineering history and design and using mathematical and scientific concepts. Students will participate in hands-on projects in a well-equipped production shop as they communicate their findings through technical reports, writing, and drawings.

This course is available with an additional option (STEM Academy) which can be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM Academy options.

- **STEM ACADEMY**

Grade Level: 9, 10, 11 and 12

Prerequisite: Materials & Processes Technology STEM Academy **OR** Technology Foundations Academy **AND** Algebra II

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

ENGINEERING ANALYSIS AND APPLICATIONS II

8451 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Engineering Explorations I

This is the second of a possible two-course pathway that will allow students to examine systems, the interaction of technology and society, ethics in a technological world, and the fundamentals of modeling while applying the engineering design process to areas of the designed world. Students will participate in hands-on projects, including one public capstone project, in a well-equipped production shop. Students will communicate information through team-based presentations, proposals, and technical reports.

This course is available with an additional option (STEM Academy) which can be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM Academy options.

- **STEM ACADEMY**

8451 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Engineering Explorations I STEM Academy **OR** Technology Foundations Academy **AND** Algebra II

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

TRADE AND INDUSTRIAL EDUCATION

AUTOMOTIVE BODY TECHNOLOGY I

8676 (1 credit)

Grade Level: 10, 11 (priority given to 10)

Prerequisite: Algebra I, Computer Math, or concurrently enrolled

The Collision Repair Program at PCHS has a strong emphasis on painting and refinishing. These students also will be introduced to the use of air brush painting and design. Students will be working with the siphon feed and gravity feed spray gun, hand & power tools, mig welding, metal working, and small dent repair. Students will be introduced to the safety practices accepted by industry while working in the collision repair shop on various training projects. This is an (ASE) nationally certified program.

COURSE DESCRIPTIONS

AUTOMOTIVE BODY TECHNOLOGY II

8677 (2 credits, 2 blocks)

Grade Level: 10, 11 and 12

Prerequisite: Automotive Body Technology I

Students in this program will be working on live work (customer vehicles) with damage including both bolt-on and weld-on parts replacement, analyzing frame damage, mechanical repairs related to collision repair, estimating collision damage, general shop operation and maintenance, and writing tickets and ordering parts with a strong focus on painting and refinishing. Students will be required to take Workplace Readiness Skills for the Commonwealth.

AUTOMOTIVE BODY TECHNOLOGY III

8678 (2 credits, 2 blocks)

Grade Level: 11, 12

Prerequisite: Automotive Body Technology II

Students will be exposed to all phases of the collision repair trade. Emphasis will be placed on use of the spray gun, paint products and their usage, work habits, shop operation and maintenance. Students will continue to focus on the ASE Painting and Refinishing Program. Students will be required to take Workplace Readiness Skills for the Commonwealth.

AUTOMOTIVE TECHNOLOGY I

8506 (1 credit)

Grade Level: 10, 11 (priority given to 10)

Prerequisite: Algebra I, Computer Math, or concurrently enrolled

In this first course of the three-course program, students learn all aspects of repair, safety, and customer service by concentrating on two of the primary ASE/NATEF areas for certification (i.e., areas V. Brakes and VI. Electrical/Electronics). Students who successfully complete this portion of the program will be prepared to take and pass the respective ASE/NATEF exam and will be prepared for post-secondary education opportunities.

AUTOMOTIVE TECHNOLOGY II

8507 (2 credits, 2 blocks)

Grade Level: 11, 12

Prerequisite: Automotive Technology I

In this second course of the three-course program, students learn all aspects of repair, safety, and customer service by concentrating on two of the primary ASE/NATEF areas of certification (i.e., IV. Suspension and Steering and VIII. Engine Performance). Students who successfully complete this portion of the program will be prepared to take and pass the respective ASE/NATEF exam and will be prepared for postsecondary education opportunities.

AUTOMOTIVE TECHNOLOGY III

8508 (2 credits, 2 blocks)

Grade Level: 12

Prerequisite: Automotive Technology II

In this capstone course of the three-course program, students master all aspects of repair, safety, and customer service by concentrating on the remaining tasks from the four primary ASE/NATEF areas for certification (i.e., IV. Suspension and Steering, V. Brakes, VI. Electrical/Electronics, and VIII. Engine Performance). Students who successfully complete this program will be prepared to take and pass the respective ASE/NATEF exam and will be prepared for postsecondary education opportunities.

CARPENTRY I

8601 (1 credit)

Grade Level: 9, 10 (priority given to 10)

Prerequisite: Algebra I, Computer Math, or concurrently enrolled

Carpentry I introduces students to skills essential to success in the profession. Students use hand and power tools to cut stock; learn to read blueprints, build and install foundations, trusses, doors, windows, stairs, and finishes, and frame walls, floors,

COURSE DESCRIPTIONS

ceilings, roofs, decks, and porches. All students will obtain a required OSHA 10 Safety Credential in the class. Students will be required to work outside on projects.

This course is available with an additional option (STEM Academy) which can be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM Academy options.

- **STEM ACADEMY**

Grade Level: 9, 10 (priority given to 10)

Prerequisite: Complete a Pulaski County Governor's STEM Academy Application, possess a minimum GPA of 2.5, passing scores on the highest level attained on the English and Mathematics SOL tests.

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

CARPENTRY II

8602 (2 credits, 2 blocks)

Grade Level: 11, 12

Prerequisite: Carpentry I

Carpentry II completes students' secondary training for the carpentry profession. Students study blueprints; build and install foundations, trusses, doors, windows, stairs, and finishes; and frame walls, floors, ceilings, roofs, decks, and porches. In addition, students are introduced to basic rigging, learn to estimate and select building materials, and install cabinets.

This course is available with two additional options (dual enrollment & STEM Academy) which can both be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM academy options.

- **CTE DUAL ENROLLMENT**

8602 (2 credits, 2 blocks) (NRCC 6 credits)

Grade Level: 11, 12

Prerequisite: Carpentry I, NRCC Application and Placement Examination

Students will have the opportunity to work on a home built for Habitat for Humanity.

- **STEM Academy**

8602 (2 credits, 2 blocks)

Grade Level: 11, 12

Prerequisite: Carpentry I STEM Academy, NRCC Application and Placement Examination

Students will have the opportunity to work on a home built for Habitat for Humanity.

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

CARPENTRY III

8603 (2 credits, 2 blocks)

Grade Level: 12

Prerequisite: Carpentry II

This course prepares students for success in the carpentry profession. Students use hand and power tools to cut stock; build and install foundations, trusses, doors, windows, stairs, and finishes; study blueprints; and frame walls, floors, ceilings, roofs, decks, and porches. In addition, students are introduced to basic rigging, learn to estimate and select building materials, and install cabinets.

This course is available with two additional options (dual enrollment & STEM Academy) which can both be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM academy options.

COURSE DESCRIPTIONS

- **CTE DUAL ENROLLMENT (CARPENTRY III)**

8603 (2 credits, 2 blocks) (NRCC 6 credits)

Grade Level: 12

Prerequisite: Carpentry II, NRCC Placement Examination and NRCC Application

Students will have the opportunity to work on a home built for Habitat for Humanity.

- **STEM Academy (CARPENTRY III)**

8603 (2 credits, 2 blocks)

Grade Level: 12

Prerequisite: Carpentry II STEM Academy, NRCC Placement Examination and NRCC Application

Students will have the opportunity to work on a home built for Habitat for Humanity.

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

DRAFTING I PENDING

8530 (1 credit)

Grade Level: 9, 10, 11

Prerequisite: Grade "C" or higher in Algebra I

This class is recommended for students interested in Architectural Design, Engineering, Industrial/Mechanical Design, 3D Modeling, or a career in Computer-Aided Drafting and Design. The first nine weeks will consist of manual sketching and drafting. Students will learn the necessary skills to produce complete accurate drawings like those produced by professional drafters, designers, architects, and engineers. Students will be instructed with the latest version of Auto-Cad and Inventor Pro, some of the industry's leading design software packages. Students will do mechanical, technical and architectural drawings with an emphasis on technical skills necessary to produce quality technical drawings. This class allows students to participate in Skills USA

This course is available with an additional option (STEM Academy) which can be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM Academy options.

- **STEM Academy**

8530 (1 credit)

Grade Level: 9, 10, 11

Prerequisite: Complete a Pulaski County Governor's STEM Academy Application, possess a minimum GPA of 2.5, passing scores on the highest level attained on the English and Mathematics SOL tests.

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

DRAFTING II PENDING

8531 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: Drafting I

This class will offer students the opportunity to expand their knowledge of drafting and design with the use of Auto-Cad. They will be introduced to 3D modeling and architectural design. Emphasis will be placed on producing high quality work at industry standards. Students' lab time will be project based. Upon successful completion of this course, students may be required to take the Workplace Readiness Exam given, or another industry exam to earn a credential. This class allows students to participate in Skills USA

This course is available with two additional options (dual enrollment & STEM Academy) which can both be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM academy options.

COURSE DESCRIPTIONS

- **CTE DUAL ENROLLMENT (DRAFTING II *PENDING*)**
8531 (1 credit) (NRCC 3 credits)
Grade Level: 11, 12
Prerequisite: Drafting I, NRCC Placement Examination, and NRCC Application
- **STEM Academy (DRAFTING II *PENDING*)**
8531 (1 credit) (NRCC 3 credits)
Grade Level: 10, 11 and 12
Prerequisite: Drafting I STEM Academy, NRCC Placement Examination, and NRCC Application

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

DRAFTING III *PENDING*
8532 (1 credit, 1 block)
Grade Level: 10, 11 and 12
Prerequisite: Drafting II

This class is for advanced students who have completed Levels I & II in Drafting. Students will concentrate on completing entire projects from initial conception of design through the finished architectural, civil engineering and 3D modeling design phase. Students will continue to work with 3D design and will complete several projects utilizing this technology. This class allows students to participate in Skills USA.

This course is available with two additional options (dual enrollment & STEM Academy) which can both be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM academy options.

- **CTE DUAL ENROLLMENT**
8532 (1 credit, 1 block) (NRCC 3 credits)
Grade Level: 11, 12
Prerequisite: Drafting II, NRCC Placement Examination, and NRCC Application
- **STEM Academy**
8532 (1 credit, 1 block)
Grade Level: 10, 11 and 12
Prerequisite: Drafting II STEM Academy, NRCC Placement Examination, and NRCC Application

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

BEAUTY SALON ASSISTANT
8546 (1 credit, 1 block)
Grade Level: 10
Prerequisite: None

The Beauty Salon Assistant course prepares students for work as an assistant in a hair salon. Students study and prepare in a clinical lab setting, learning practical and manipulative skills. The program emphasizes safety and sanitation, shampooing and conditioning, retailing, inventory control, and receptionist work. Competency completions allow students a certificate for entry-level employment. A course fee of \$45 is required.

COSMETOLOGY I
8527 (2 credits, 2 blocks)
Grade Level: 11
Prerequisite: Application and successful completion of Beauty Salon Assistant

Students are required to submit an application including two written teacher recommendations that are positive and favorable of the student's qualifications to work in Cosmetology. In efforts to secure a successful candidate in the program, discipline records and attendance will be checked and used in the consideration of student enrollment.

COURSE DESCRIPTIONS

Cosmetology refers to the study and practice of beauty culture. In this introductory course, students study hair, skin, and nails and their related care. Students are grounded in theory as they prepare to practice procedures in a clinical lab setting or classroom, using manikins for manipulative skill practice. The first-year course emphasizes personal safety, professionalism, sanitation, and disinfection of equipment and facilities. Students develop skills in shampooing and conditioning hair, as well as styling and cutting hair. They are introduced to chemical texture services and develop skills in manicure and pedicure procedures. Students will gradually assume the role of an employee in a lab that is operated as a beauty salon serving outside patrons (students may opt to intern in a salon). This class allows students to be members and participate in Skills USA. A course fee of \$45 is required.

COSMETOLOGY II **8528 (2 credits, 2 blocks)**

Grade Level: 12

Prerequisite: Successful completion of Cosmetology I

In this advanced course, students build on their theoretical foundation of general sciences and practices in cosmetology to increase proficiency in hair cutting and styling on live models, with attention to professionalism, client consultation, safety, and infection control. Students are trained in safe chemical processes related to permanent waves, relaxers, soft-curl permanent waves, lightening, and coloring hair. They also develop artistic skills with wigs and hair additions. In addition, students learn to care for skin, hands, and feet, developing experience in providing facials, manicures, pedicures, and nail enhancements. A business management unit focuses on managing the salon. Competency completion prepares the student for the Virginia State Licensing Exam. Students can combine classroom instruction and supervised on-the-job training in an approved position or internship with continuing supervision throughout the school year.

This is a continuation of Cosmetology I. Students will assume the role of an employee in a lab that is operated as a commercial beauty salon serving outside patrons (students may opt to intern in a salon). This class allows students to be members and participate in Skills USA. At the completion of Cosmetology II, students will sit for state board examination for licensure and completion of program. A course fee of \$45.00 is required as well as a state board fee.

CRIMINAL JUSTICE I **8702 (1 credit, 1 block)**

Grade Level: 10, 11 and 12

Prerequisite: None

Students are introduced to the legal foundations, processes, principles, techniques, and practices for exploring careers within the criminal justice system. Criminal Justice I is the first of a three-year sequence of classes designed to prepare students for further study and employment in the field of law enforcement, experience using the various law enforcement implements in simulated laboratory situations, and physical training. Guest speakers from the profession ride-along programs and visits to local police academies will be included. Some training sessions may be conducted at off-campus sites. Students planning to work for local police departments, state police, park service, department of forestry, or any other law enforcement agency are encouraged to enroll.

This course is available with an additional option (STEM Academy) which can be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM Academy options.

- **STEM ACADEMY**

Grade level: 10, 11 and 12

Prerequisite: Complete a Pulaski County Governor's STEM Academy Application; possess a minimum GPA of 2.5, passing scores on the highest level attained on the English and Mathematics SOL tests.

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

COURSE DESCRIPTIONS

CRIMINAL JUSTICE II

8703 (2 credits, 2 blocks)

Grade Level: 11, 12

Prerequisite: Minimum “C” average in Criminal Justice I

Students learn the legal foundations, processes, principles, techniques, and practices for exploring careers within the criminal justice system, and the history of terrorism in the United States. Students combine classroom instruction and supervised, practical experience throughout the school year. Criminal Justice II provides more in-depth study of concepts introduced in Criminal Justice I. Students will have the opportunity to explore aspects of law enforcement procedures and techniques through simulated experiences. Upon completion of this course, students will have the opportunity to take the Criminal Justice Assessment and/or the Crime Scene Investigation and Criminal Justice Examination.

This course is available with an additional option (STEM Academy) which can be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM Academy options.

- **STEM ACADEMY**

Grade level: 11, 12

Prerequisite: Minimum “C” average in Criminal Justice I. Complete a Pulaski County Governor’s STEM Academy Application, possess a minimum GPA of 2.5, passing scores on the highest level attained on the English and Mathematics SOL tests.

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education

MILITARY SCIENCE I (J.R.O.T.C.) *PENDING

7913 (1 credit, 1 block)

Grade Level: 9, 10, and 11

Prerequisite: None

Students are introduced to the JROTC curriculum and basic U.S. citizenship rights and responsibilities are established and reinforced. Students learn leadership, history, communication techniques, disciplined study habits, management skills, first aid, drug abuse prevention, map reading, physical fitness, and workplace readiness skills. Military customs and courtesies, proper uniform wear, and personal appearance guidelines are followed within the leadership lab, drill, and military ceremonies.

MILITARY SCIENCE II (J.R.O.T.C.) *PENDING

7916 (1 credit, 1 block)

Grade Level: 9, 10, and 11

Prerequisite: Military Science I

Students are introduced to the JROTC curriculum and basic U.S. citizenship rights and responsibilities are established and reinforced. Students learn leadership, history, communication techniques, disciplined study habits, management skills, first aid, drug abuse prevention, map reading, physical fitness, and workplace readiness skills. Military customs and courtesies, proper uniform wear, and personal appearance guidelines are followed within the leadership lab, drill, and military ceremonies.

MILITARY SCIENCE III (J.R.O.T.C.) *PENDING

7918 (1 credit, 1 block)

Grade Level: 10, 11 and 12

Prerequisite: Military Science II

Students continue to develop their leadership skills through working as command and staff leaders. Additional communication skills are developed, including methods of instruction, preparation, and proper conduct of cadet-led classes. Human relations, group dynamics, orienteering, contemporary U. S. issues, and advanced military history studies are also included.

COURSE DESCRIPTIONS

MILITARY SCIENCE IV (J.R.O.T.C.) *PENDING

7919 (1 credit, 1 block)

Grade Level: 10, 11 and 12

Prerequisite: Military Science III

Students continue to develop their leadership skills through working as command and staff leaders. Additional communication skills are developed, including methods of instruction, preparation, and proper conduct of cadet-led classes. Human relations, group dynamics, orienteering, contemporary U. S. issues, and advanced military history studies are also included.

PRECISION MACHINING I *PENDING

8541 (1 credit, 1 block)

Grade Level: 10, 11

Prerequisite: None

The demand for precision machinists is growing along with the resurgence of the U.S. manufacturing industry. Machinists are highly skilled, creative problem solvers who are task-oriented and self-directed individuals. In this first course, students are taught safety awareness and the foundations of machining, including how to accurately apply measurements, use engineering drawings and sketches, and apply metalworking theory in order to efficiently plan, manage, and perform general machine maintenance and machining jobs.

This course is available with an additional option (STEM Academy) which can be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM Academy options.

- **STEM Academy**
8539 (1 credit, 1 block)
Grade Level: 10, 11
Prerequisite: Complete a Pulaski County Governor's STEM Academy Application, possess a minimum GPA of 2.5, passing scores on the highest level attained on the English and Mathematics SOL tests.

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

PRECISION MACHINING II *PENDING

8540 (2 credit, 2 blocks)

Grade Level: 11, 12

Prerequisite: Precision Machining I

The demand for precision machinists is growing along with the resurgence of the U.S. manufacturing industry. Machinists are highly skilled, creative problem solvers who are task-oriented and self-directed individuals. In this advanced course, CNC machining operations are emphasized. Students have the opportunity to increase their skills in applying precise measurements, using engineering drawings and sketches, and applying metalworking theory in order to safely and efficiently plan, manage, and perform general machine maintenance and machining jobs.

This course is available with two additional options (dual enrollment & STEM Academy) which can both be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM academy options.

- **CTE DUAL ENROLLMENT**
8540 (2 credit, 2 blocks) (NRCC 3 credits)
Grade Level: 11, 12
Prerequisite: Precision Machining I, NRCC Placement Examination, and NRCC Application

COURSE DESCRIPTIONS

- **STEM Academy**
8540 (2 credit, 2 blocks)
Grade Level: 11, 12
Prerequisite: Precision Machining I STEM Academy, NRCC Placement Examination, and NRCC Application

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

EDUCATION FOR EMPLOYMENT I **9085 (1 credit)**

Grade Level: 9, 10, 11 and 12
Prerequisite: Teacher recommendation

Education for Employment I is designed to give students practical experience and skills needed for employment in building maintenance and grounds keeping. The program will prepare students for employment with nurseries, lawn care services, landscaping firms, parks, and out-of-door employers. Students work on projects within the school system relating to care and maintenance of building grounds, lawns, and campus landscape.

EDUCATION FOR EMPLOYMENT II **9087 (2 credits, 2 blocks)**

Grade Level: 11, 12
Prerequisite: Education for Employment I and teacher recommendation

Students in the Education for Employment II program will learn and apply landscaping skills and maintain and operate professional landscaping equipment.

ELECTRICITY I **8533 (1 credit)**

Grade Level: 10, 11
Prerequisite: Algebra I, Computer Math, or concurrently enrolled

Students will be introduced to the field of electricity. The course will cover residential, commercial, and industrial wiring methods and materials. Students will be introduced to basic electric theory, electrical safety, electrical tools, electrical equipment, and electrical test equipment. Students will learn to read basic electrical blueprints and basic electrical schematics. Students will be introduced to both residential and commercial wiring systems, including conduit wiring systems. Workmanship and professionalism will be stressed throughout the course. Students will spend a significant amount of class time engaged in hands-on learning. Electricity I students will be involved in Skills USA. Students will gain leadership skills and have the opportunity to compete against other students at the local, district, state, and national levels.

This course is available with an additional option (STEM Academy) which can be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM Academy options.

- **STEM Academy**
8533 (1 credit)
Grade Level: 10, 11
Prerequisite: Complete a Pulaski County Governor's STEM Academy Application, possess a minimum GPA of 2.5, passing scores on the highest level attained on the English and Mathematics SOL tests.

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

COURSE DESCRIPTIONS

ELECTRICITY II

8534 (2 credit, 2 blocks)

Grade Level: 11, 12

Prerequisite: Electricity I, NRCC Placement Examination, and NRCC Application

Students will practice commercial and industrial wiring methods. Electric motors, motor controls, and relays will be studied. Students will be expected to troubleshoot and repair a wide range of electrical devices and equipment. Students will be introduced to more complex electrical blueprints and electrical schematics. The National Electrical Code will be heavily emphasized throughout the course. Students will bend conduit, install electrical wire and cables, install electrical devices, wire motor control systems, and troubleshoot circuits. Electrical rework and upgrades will also be covered. Students will be very involved in Skills USA. Students may be required to take the Introductory Craft Skills, National Construction Career Test (NCCT) or another certification exam upon successful completion of this class.

This course is available with two additional options (dual enrollment & STEM Academy) which can both be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM academy options.

- **CTE DUAL ENROLLMENT**
8534 (2 credit, 2 blocks) (NRCC 6 credits)
Grade Level: 11, 12
Prerequisite: Electricity I, NRCC Placement Examination, and NRCC Application
- **STEM Academy**
8534 (2 credit, 2 blocks)
Grade Level: 11, 12
Prerequisite: Electricity I STEM Academy, NRCC Placement Examination, and NRCC Application

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

ELECTRICITY III

8535 (2 credits, 2 blocks)

Grade Level: 11, 12

Prerequisite: Electricity II

Student's skills and knowledge in the field of electricity will be further developed in this course. Industrial electrical systems will be covered extensively and will include: three-phase electrical systems, industrial motor controls, distribution systems, industrial electrical motors, and transformers. Students enrolled in this course will spend significant time practicing and learning the National Electrical Code in preparation for future employment in the electrical trades. Students will be very involved in Skills USA.

This course is available with two additional options (dual enrollment & STEM Academy) which can both be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM academy options.

- **CTE DUAL ENROLLMENT**
8535 (2 credit, 2 blocks) (NRCC 6 credits)
Grade Level: 11, 12
Prerequisite: Electricity II, NRCC Placement Examination, and NRCC Application
- **STEM Academy**
8535 (2 credit, 2 blocks)
Grade Level: 11, 12
Prerequisite: Electricity II STEM Academy, NRCC Placement Examination, and NRCC Application

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

COURSE DESCRIPTIONS

TV/MEDIA PRODUCTION I

8688 (1 credit)

Grade Level: 9, 10, 11 and 12

Prerequisite: English 10 or concurrently enrolled

This course will provide students the opportunity to express themselves through television, video, and computer technology. The television studio, camcorders, computers, and VCRs are used to produce individual projects, newscasts, talk shows, and videos that cover major events at PCHS. Students interested in broadcast journalism, professional videography, music video, cinematography, and TV studio management and operations are provided with a managed environment that plays host to learning basic skills needed for these careers.

TV/MEDIA PRODUCTION II

8689 (2 credits, 2 blocks)

Grade Level: 10, 11 and 12

Prerequisite: Minimum grade of “C” in TV/Media Production I

This course is a continuation of TV/Media Production I. Emphasis will be placed on editing, producing, computer editing, professional camcorder use, and videography. Students in this class will produce videos as needed for the student body, the school, and the community. Students will be required to take a certification exam upon successful completion of this class.

TV/MEDIA PRODUCTION III

8690 (2 credits, 2 blocks)

Grade Level: 11, 12

Prerequisite: Minimum grade of “C” in TV/Media Production II

This course is a continuation of TV/Media Production II. Emphasis is placed on editing, producing, computer editing, professional camcorder use, and videography. Students will be expected and required to demonstrate advanced knowledge of videography, editing, graphics creation and audio recording. In this course, students will continue to produce school and community videos. A greater emphasis will be placed on editing and computer editing.

WELDING I

8672 (1 credit)

Grade Level: 10, 11 and 12

Prerequisite: None

Students will receive instruction providing career training in the areas of metal fabrication and emerging welding technologies. This course will provide students with a basic knowledge of electricity and how it applies to welding. In addition, students will be introduced to shielded metal arc welding, gas metal arc welding, gas tungsten arc welding, oxy – fuel welding, plasma arc cutting, and oxy-fuel cutting processes. Students will begin the American Welding Society SENSE program to earn a welding industry certification.

This course is available with an additional option (STEM Academy) which can be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM Academy options.

- **STEM Academy**
8672 (1 credit)
Grade Level: 10, 11 and 12
Prerequisite: Complete a Pulaski County Governor’s STEM Academy Application, possess a minimum GPA of 2.5, passing scores on the highest level attained on the English and Mathematics SOL tests.

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

COURSE DESCRIPTIONS

WELDING II

8673 (2 credits, 2 blocks)

Grade Level: 11, 12

Prerequisite: Welding I

Students learn to use gases and electric arc processes to fabricate and weld metal parts according to diagrams. Students will also learn to read blueprints and interpret weld symbols, as well as demonstrate many construction safety standards as they relate to the welding industry. Each student will be required to perform horizontal, vertical, and overhead welds using each major welding process. Students will complete the American Welding Society SENSE program to earn a welding industry certification.

This course is available with two additional options (dual enrollment & STEM Academy) which can both be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM academy options.

- **CTE DUAL ENROLLMENT**
8673 (2 credit, 2 blocks) (NRCC 3 credits)
Grade Level: 11, 12
Prerequisite: Welding I, NRCC Placement Examination, and NRCC Application
- **STEM Academy**
8535 (2 credit, 2 blocks)
Grade Level: 11, 12
Prerequisite: Welding I STEM Academy, NRCC Placement Examination, and NRCC Application

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

WELDING III

8674 (2 credits, 2 blocks)

Grade Level: 11, 12

Prerequisite: Welding II

Students will work toward receiving American Welding Society (AWS) welding qualifications to become an entry level welder. Students will learn the various types of weld tests and perform destructive and non-destructive tests on their own welds. Each student will learn metallurgy and aluminum welding practices. Students will explore careers in welding as well as demonstrate maintenance procedures for each welding machine.

This course is available with two additional options (dual enrollment & STEM Academy) which can both be utilized. Preferences will be given to students who take advantage of dual enrollment and/or STEM academy options.

- **CTE DUAL ENROLLMENT**
8674 (1 credit, 1 block) (NRCC 4 credits)
Grade Level: 11, 12
Prerequisite: Welding II, NRCC Placement Examination, and NRCC Application
- **STEM Academy**
8674 (1 credit, 1 block)
Grade Level: 11, 12
Prerequisite: Welding II STEM Academy, NRCC Placement Examination, and NRCC Application

This course is STEM-based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

COURSE DESCRIPTIONS

SUMMER SCHOOL

Pulaski County High School tries to offer summer school to students who have previously failed a required course. Letters are sent out at the end of the school year informing students of their failures and the opportunity to retake the course in summer school. Summer school is currently a three-week program where students use a computer-based program to repeat the course they have previously failed. Space is limited in summer school and is based on a first come, first serve basis. In the event enrollment exceeds the class limit for Camp Cougar 9, then those applicants who are not able to participate in Camp Cougar 9 (due to enrollment limits) will receive priority for participating in Camp Cougar 10 the following year. No other students will receive priority. There is a fee for summer school. Questions about summer school should be directed to the Guidance Office.

Courses offered for NEW credit:

CAMP COUGAR 9 (1 credit)

7302 Health & PE 9

Grade Level: 9

Prerequisite: Must pass a swim test

Camp Cougar 9 is a high adventure-based program that provides health and physical education in a non-traditional setting. This program provides ninth grade students with exciting experiences such as whitewater rafting, canoeing, low and high rope participation, hiking, rock climbing as well as a health component that focuses on wellness, nutrition, and general well-being. One credit for ninth grade P.E. will be awarded for those students who successfully complete this program. Students are responsible for tuition fees and transportation. Class size is limited.

Camp Cougar 9 is a physical education course designed to meet the Commonwealth of Virginia's requirements for 9th grade physical education and health education. This program is designed for Pulaski County High School students entering the 9th grade.

CAMP COUGAR 10 (1 credit)

7402 Health & PE 10

Grade Level: 9 or 10

Prerequisite: P.E. 9 and pass a swim test

Camp Cougar 10 is a high adventure-based program that provides health and physical education in a non-traditional setting. This program provides students with exciting experiences such as whitewater rafting, canoeing, hiking, caving, and a strong emphasis on aquatics to include sailing, kayaking, skiing and other water sports. One credit for tenth grade P.E. will be awarded for those students who successfully complete this program. Students will also complete the curriculum for Driver's Education. Students are responsible for tuition fees and transportation. Class size is limited.

Camp Cougar 10 is a physical education course designed to meet the Commonwealth of Virginia's requirements for 10th grade physical education and driver's education. This program is designed for Pulaski County High School students entering the 10th grade.

REGISTRATION WORKSHEET
2016-17
Course Selections

<u>Course Number</u>	<u>Course Name</u>	<u>Teacher Recommendation</u>
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1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

Alternate Course Selection – MANDATORY
(3 Required)

1. _____
2. _____
3. _____

Please refer to the 2016-17 Course Catalog for course numbers, credits, prerequisites, descriptions, graduation requirements, and additional registration information. Each student will be contacted on an individual basis to complete the registration process. If there are questions or concerns, please contact the grade level counselor (643-0747).

REGISTRATION FORMS: Please read course descriptions carefully to understand what is expected of students in each class. Select alternatives carefully. Review credits earned and courses taken to be certain graduation requirements are met.