COURSE CATALOG

2027-2028

PULASKI COUNTY HIGH SCHOOL

HOME OF THE COUGARS

***The Course Catalog may be subject to change at any time. For the most up to date version, please visit Pulaski County High School's webpage:**

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

***Pulaski County Public Schools does not discriminate in its programs and activities for reasons of race, religion, color, gender, national origin, disability, age, or on any other basis prohibited by law.**

***La interpretación de este documento está disponible. Llame a Dannah Card, especialista en EL, al 540-643-0919.**

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General Instructions

Instructions For Registration

Students should follow instructions for registration:

- Students should select the required courses needed to meet graduation requirements as well as the elective courses they want to take. All students must be scheduled for a minimum of eight (8) credits.
- Students are urged to read the course description carefully and to note prerequisites before making selections.
- Students should consult with school 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 choose alternate courses, as these courses are often utilized when conflicts occur.

Policies

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.

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 5 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, summer enrichment opportunities 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 administration prior to taking the course(s).

Repeat courses for credit (i.e. courses previously failed) will be added to the previous spring semester grades recorded on the transcript. New courses taken for credit will be added to the upcoming fall semester grades recorded on the transcript.

Course credit

Courses not taken at PCHS or not a part of a PCHS sanctioned program, such as Cougar Scholars, Southwest Virginia Governor's School, New River Valley Governor's School for the Arts and Humanities, will not be awarded academic credit at PCHS. PCHS will not award or accept credit for enrichment programs paid for by the student/parent .

Early Release Policy

Junior and senior students on track to graduate may be eligible for one block early release or in select instances one block late arrival per semester. Students must complete an application requesting early release/late arrival and have daily transportation to be eligible. The application must be signed by a parent and approved by the committee. Applications will be accepted during the first 5 days of each semester. Administration reserves the right to withhold early release/late arrival as deemed necessary.

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
- Junior: Completion of four high school semesters with a minimum of twelve credits
- Senior: Completion of six high school semesters with a minimum of eighteen credits

NCAA Initial Eligibility Requirements

Eligibility is the process that determines whether you can practice, compete and receive athletics aid when you enroll as a full-time college student at an NCAA school. Eligibility requirements vary by division. Division I and II schools require your academic and athletics eligibility to be certified by the NCAA Eligibility Center. Division III schools set their own academic standards on campus, but the Eligibility Center certifies the athletics eligibility of Division III international student-athletes. Click on the link for specific information regarding Eligibility.

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.

Rank and Average

Rank in class is based on all subjects including withdrawals (WF). A system of ranking establishes the class standing of all 11th and 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 becomes a part of the student's personal file.

Student Transcript and Test Record

Parents, guardians or others with legal control of a student can elect in writing to have the student's test record excluded from the student transcript. The test record includes at least the highest score earned, if applicable, on college performance-related standardized tests such as SAT and ACT, excluding Standards of Learning (SOL) test scores. The written request to have scores excluded must be sent to the registrar in the PCHS school counseling department.

Title IX and 504

Equal educational opportunities shall be available by Pulaski County Public Schools for all students, without regard to sex, race, color, national origin, gender, ethnicity, religion, disability, ancestry, or marital or parental status. Educational programs shall be designed to meet the varying needs of all students. No student, on the basis of sex or gender, shall be denied equal access to programs, activities, services or benefits or be limited in the exercise of any right, privilege, or advantage or be denied equal access to educational and extracurricular programs and activities.

The School Board shall provide facilities, programs and activities that are accessible, usable and available to qualified disabled persons; provide free, appropriate education, including non-academic and extracurricular services to qualified disabled persons; not exclude qualified disabled persons, solely on the basis of their disabilities, from any preschool, daycare, adult education or career and

technical education programs; and not discriminate against qualified disabled persons in the provision of health, welfare or social services.

Any student who believes he or she has been the victim of prohibited discrimination should report the alleged discrimination as soon as possible to one of the Compliance Officers designated in this policy or to any other school personnel. The alleged discrimination should be reported as soon as possible, and the report generally should be made within fifteen (15) school days of the occurrence. Further, any student who has knowledge of conduct which may constitute prohibited discrimination should report such conduct to one of the Compliance Officers designated in this policy or to any school personnel. Any employee who has knowledge of conduct which may constitute prohibited discrimination shall immediately report such conduct to one of the Compliance Officers designated in this policy.

The reporting party should use the form, Report of Discrimination, JB-F, to make complaints of discrimination. However, oral reports and other written reports shall also be accepted. The complaint should be filed with either the building principal or one of the Compliance Officers designated in this policy. The principal shall immediately forward any report of alleged prohibited discrimination to the Compliance Officer. Any complaint that involves the Compliance Officer shall be reported to the Superintendent.

The complaint, and identity of the complainant and of the person or persons allegedly responsible for the discrimination, will not be disclosed except as required by law or policy, as necessary to fully investigate the complaint or as authorized by the complainant. A complainant who wishes to remain anonymous will be advised that such confidentiality may limit the school division's ability to fully respond to the complaint.

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 schedule 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 students register for this course and the request will be subject to administrative approval.

Withdrawal From Course Policy
Students will have a maximum of 5 school days to request withdrawal from any class without penalty if an alternative course is available. Parent consent is mandatory prior to a course change being considered. After 5 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 career and technical, fine arts, and academic offerings.

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 U.S. Government and Politics
- AP European History

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: http://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.

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 August 1 prior to the start of the school year. There is no late registration through Virtual Virginia.

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 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 (NRCC) 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 NRCC. Admission procedures follow requirements of the high school and the community college. Several NRCC courses (first 9 weeks) serve as prerequisites to the second 9 weeks of a dual enrolled course. Students wishing to enroll in some dual enrollment courses must maintain a passing grade during the first 9 week grading period to remain enrolled in

the course for the full semester. Failure to maintain a passing grade in the first 9 week grading period can result in removal from the course and placement into an academic equivalent of the course. For example, in the English 12 dual enrollment course students must earn a D or better in the first nine weeks of the course to remain enrolled in the dual English 12 course during the second 9 weeks. The first 9 weeks of the course students are working to complete English 111. The English 111 course is the prerequisite to the second 9 weeks curriculum of English 112. Upon successful completion of the course, one weighted high school credit will be awarded and the corresponding number of semester hours of college credit will be awarded by NRCC. Students must submit their applications for admission to NRCC **AND have a parent signature on file with the college before being dual enrolled.** Academic courses require a GPA of 3.0 for enrollment. CTE courses have more opportunity for flexibility when enrolling regarding GPA minimum. Applications can be submitted on the NRCC website at nr.edu and click APPLY. Dual Enrollment Parent Signature Form can be found here: https://www.nr.edu/dualenrollment/pdf/parentsignatureform.pdf. The parent signature form only needs to be provided once and then will be placed on file in the student's NRCC record. For more detailed information regarding course content please visit the following website: https://courses.vccs.edu/courses.

PCHS Dual Enrollment Opportunities

(Minimum numbers required by NRCC for enrollment) ***Dual enrollment course only - only offered through the high school***

PCHS Course	NRCC Equivalent
Biology I (4315)	BIO 101 General Biology I & lab (4 credits)
Biology II (4316)	BIO 102 General Biology II & lab (4 credits)
Calculus Dual Enrollment (3175)	MTH 263 Calculus I (4 credits)
Carpentry II (8602)	*BLD 110 Introduction to Construction (3 credits) *BLD 125 Introduction to Carpentry Trades (3 credits)
Carpentry III (8603)	*BLD 126 Basic Carpentry Principles (3 credits) *BLD 135 Building Construction Carpentry (3 credits)
Electricity II (8534)	*ELE 111 Home Electric Power I (3 credits) *ELE 112 Home Electric Power II (3 credits)
Electricity III (8535)	*ELE 113 Electricity I (3 credits) *ELE 114 Electricity II (3 credits)
English 11 (1115) (11th graders)	ENG 111 College Composition I (3 credits) ENG 112 College Composition II (3 credits)
English 12 (1120) (12th graders)	ENG 111 College Composition I (3 credits) ENG 112 College Composition II (3 credits)
English 12 II (1121)	ENG 225 Reading Literature: Culture and Ideas (3 credits) ENG 245 British Literature 3 credit(s)
Fundamentals of Reasoning (xxxx)	MTH 130 Fundamentals of Reasoning (3 credits)
Nurse Aide 8341	NUR 27 Nurse Aide I (5 credits)
History of Western Civilization (2952)	HIS 101 History of Western Civilization Pre 1600 CE (3 credits) HIS 102 History of Western Civilization Post 1600 CE (3 credits)
Humanities (2955)	HUM 201 Early Humanities (3 credits) HUM 259 The Greek and Roman Tradition (3 credits)
Music Appreciation (9203)	MUS 121 Music in Society (3 credits) MUS 221 History of Western Music Prior to 1750 (3 credits)
Pre-Calculus Part I Dual 3167 Pre-Calculus Part II Dual 3168	MTH 161 PreCalculus I (3 credits) MTH 162 PreCalculus II (3 credits)
Psychology (2911)	PSY 200 Principles of Psychology (3 credits) PSY 230 Developmental Psychology (3 credits)
Quantitative Reasoning (3193)	MTH 154 Quantitative Reasoning (3 credits)
Statistical Reasoning ((3192)	MTH 155 Statistical Reasoning (3 credits)
US History (2363)	HIS 121 US History to 1877 (3 credits) HIS 122 US History since 1865 (3 credits)
Virginia Teachers for Tomorrow (9062)	EDU 200 Foundations of Education (3 credits)
Welding II (8673)	WEL 100 Fundamentals of Welding (3 credits)
Welding III (8674)	WEL 123 Shielded Metal Arc Welding (Basics) (4 credits)

Cougar Scholars Program

The Cougar Scholars Program seeks to provide upperclassmen with a rigorous curriculum path to earn an associate's degree during high school. Admission into the program will require that students participate in summer coursework in addition to dual enrollment coursework during their 11th and 12th grade years. Most, if not all, courses will be available on the PCHS campus; however, students may be required to attend courses on the New River Community College campus.

Program selection will be based on the following: SOL scores-pass/advanced scores are ideal, Demanding coursework in 9th and 10th grades, grade point average-3.0 minimum, PSAT/SAT Scores (if available), attendance record, teacher recommendations-two from different academic disciplines, mathematics preparation: completion of Algebra I, Geometry, and Algebra II, Good Standing Status and signed Student Conduct Form. Application considerations for interested students are: be rising 11th graders,exhibit above-average school performance,exhibit evidence of intellectual curiosity, analytical thinking, and imagination, show evidence of aptitude, potential, and strong interest in college level courses, and have a sincere desire to participate in the Cougar Scholars Program and obtain an associate's degree during high school.

Uniform Certificate of General Studies

The Uniform Certificate of General Studies (UCGS) is a college program in which a minimum of 30 dual enrollment courses are transferable and satisfy lower-division general requirements at any Virginia public institution of higher education. The UCGS consists of seven course blocks. To satisfy the UCGS, students are required to complete the appropriate number of dual enrollment courses in each block. Students interested in meeting the requirements of the UCGS and earning the certificate should meet with their counselor to map out a plan of study.

Early College Scholars

The Early College Scholars program allows eligible high school students to earn a minimum of 15 transferable college credits while fulfilling the requirements for an Advanced Studies Diploma. To qualify for this program students must meet the following criteria: maintain a "B" average or better in their high school classes; earn an Advanced Studies Diploma; and Successfully complete college-level coursework such as AP, IB, Cambridge or dual enrollment to earn at least 15 transferable college credits. To formalize participation, students must sign a Governor's Early College Scholars Agreement.

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 motivated. These courses provide students with opportunities to explore subjects at an advanced level of inquiry. Students are expected to take the initiative in pursuing independent reading and class preparation.

New River Valley Governor's School for the Arts and Humanities

The New River Valley Governor's School will provide students with access to high-level coursework, creative problem-solving and immersive, interdisciplinary experiences in the arts and humanities. The Governor's School will offer a rigorous and immersive curriculum that allows students to earn up to 30 university credits. By integrating university coursework with specialized instruction in the arts and humanities, the program ensures students gain both practical and theoretical expertise in their fields of interest. A distinctive element of the Governor's School is its partnership with local arts and humanities businesses and nonprofit organizations. These collaborations will provide students with hands-on learning experiences, mentorship opportunities and exposure to real-world applications of their studies, building pathways to meaningful careers in creative industries across the region. The program will emphasize interdisciplinary collaboration, engaging students in projects that connect the arts, humanities, and other academic disciplines while maintaining a strong career focus. Students will also benefit from field experiences at museums, galleries, performance venues and historical sites that enhance classroom learning.

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, math, 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 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 (PSAT (recommended)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 Environmental Science, Biology, Algebra I, Geometry, and Algebra II.

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 visit http://www.pcva.us/swvgs.html.

Bridge to Excellence (Manufacturing Pathway)

Bridge to Excellence is a senior-level work-based learning initiative designed to connect Pulaski County High School students with regional employers in manufacturing and engineering. Through partnerships with New River Community College, Radford City Schools, and leading industry partners such as Volvo, TechLab, Hollingsworth & Vose, Oransi, and James Hardie, students participate in guided industry tours, professional skill-building, and credential opportunities aligned with local workforce needs. This program serves as a capstone experience for seniors, blending classroom instruction with real-world exposure to high-demand careers in production, engineering, and skilled trades.

Bridge to Excellence: Healthcare (Healthcare Pathway Available to Sophomores)

Bridge to Excellence: Healthcare introduces tenth-grade students to a variety of healthcare careers through partnerships with LewisGale Hospital Pulaski, New River Community College, and local healthcare providers. Participants explore fields such as nursing, emergency medical services, pharmacy, and allied health through facility tours, skills demonstrations, and career awareness activities. The experience emphasizes Virginia's 5 Cs and High-Quality Work-Based Learning standards, helping students identify future course pathways—including EMT, CNA, and Pharmacy Technician—while strengthening the region's healthcare talent pipeline.

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 17 career clusters, their accompanying career pathways, and their sample career specialties or occupations. Detailed information about Virginia's Career Clusters Initiative appears at https://www.cteresource.org/career-clusters/

The 17 Career Clusters

- Agriculture, Food, and Natural Resources
- Architecture and Construction
- Arts, Audio/Visual Technology, and Communications
- Business, Management, and Administration
- Education and Training
- Energy
- 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 17 career clusters and their accompanying career pathways are built on the 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
- Employable and career development
- Technical skills

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

Programs	Clusters	Pathways
Accounting	Finance	Accounting
Automotive Body Technology, Automotive Technology	Transportation, Distribution and Logistics	Facility and Mobile Equipment Maintenance
Carpentry	Architecture and Construction	Construction
Computer Information Systems	Business Management and Administration	Business Information Management
Computer Programming	Information Technology	Programming & Software Development
Cosmetology	Human Services	Personal Care Services
Criminal Justice	Law, Public Safety, Corrections and Security	Law Enforcement Services
Culinary Arts	Hospitality and Tourism	Restaurant, Food and Beverage Services
Cybersecurity	Information Technology	Network Systems
Early Childhood Education	Education and Training	Teaching and Training
Electricity Technology	Architecture and Construction	Construction
Emergency Medical Technician	Health Sciences	Therapeutic Services
Engineering	Science, Technology, Engineering and Mathematics	Engineering and Technology
Manufacturing Systems	Manufacturing	Production
Health Assisting Careers	Health Sciences	Therapeutic Services
Marketing	Marketing, Sales and Services	Marketing
Plant, Animal, and Natural Resources	Agriculture, Food, and Natural Resources	Agriculture
Pharmacy Technician	Health Sciences	Therapeutic Services

Television and Media Productions	Arts, Audio-Video Technology, and Communication Education, Training	Audio and Video Technology and Film Teaching, Training
Welding	Manufacturing	Production
Virginia Teachers for Tomorrow	Education and Training	Teaching and Training

Graduation Requirements

PROFILE OF A VIRGINIA GRADUATE

The Profile of a Virginia Graduate describes the knowledge, skills, experiences and attributes that students must attain to be successful in college and/or the work force and to be "life ready."

In developing the profile, the Board of Education determined that a life-ready Virginia graduate must:

- Achieve and apply appropriate academic and technical knowledge (content knowledge);
- Demonstrate productive workplace skills, qualities, and behaviors (workplace skills);
- Build connections and value interactions with others as a responsible and responsive citizen (community engagement and civic responsibility); and
- Align knowledge, skills and personal interests with career opportunities (career exploration).

The Profile of a Virginia Graduate provides the framework for the requirements students must meet to earn a Standard Diploma or Advanced Studies Diploma.

THE FIVE C's

In preparing students to meet the Profile of a Virginia Graduate, schools are required to ensure that students develop the following competencies known as the "Five C's":

- Critical thinking
- Creative thinking
- Communication
- Collaboration
- Citizenship

PERFORMANCE ASSESSMENT

Performance assessment measures subject-matter proficiency, requires students to apply the content and skills they have learned, and should present opportunities for students to demonstrate acquisition of the "Five C's" – critical thinking, creativity, communication, collaboration and citizenship – described in the Board of Education's Profile of a Virginia Graduate. Performance assessment can be summative or formative in nature. A summative performance assessment evaluates student learning and skill acquisition at the conclusion of a unit, course, etc. A formative performance assessment determines student mastery of content and skills during instruction. As students learn new skills and content, they should be given multiple opportunities to demonstrate mastery through the use of performance tasks. Both summative and formative performance assessments allow teachers and students alike to identify content that has been mastered, misconceptions, and gaps in learning. The evidence gained through performance assessment may be used to guide future classroom instruction.

CAREER EXPLORATION AND PLANNING

The career-planning component of the Profile of a Virginia Graduate provides an opportunity for students to learn more about the employment options and career paths they first explored in elementary and middle school. While there is no specific career-related activity that a student must experience (such as an internship or job-shadowing assignment) to earn a diploma, school divisions must provide opportunities for students to learn about workplace expectations and career options in their own communities and elsewhere. By reducing the number of SOL tests students must pass to earn a diploma, the new standards increase flexibility for schools to expand work-based and service-learning programs that promote college, career and civic readiness.

Standard diploma (5 Verified credits)

Courses	Credits
English	4
Math[1]	3
Science[2, 6]	3
Social Sciences[3,6]	3
Health & PE	2
Foreign Language, Fine Arts or Career & Technical Education[4]	2
Economics & Personal Finance	1
Electives[5]	4
Total	**22**

[1]Courses completed to satisfy this requirement shall include at least two different course selections from among: algebra I, geometry, algebra functions, and data analysis, algebra II, or other mathematics courses approved by the board to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a mathematics course credit.

[2]Courses completed to satisfy this requirement shall include course selections from at least two different science disciplines: earth sciences, biology, chemistry, or physics, or completion of the sequence of science courses required for the International Baccalaureate Diploma and shall include interdisciplinary courses that incorporate Standards of Learning content from multiple academic areas. The board shall approve courses to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a science course credit.

[3]Courses completed to satisfy this requirement shall include Virginia and U.S. history, Virginia and U.S. government, and one course in either world history or geography or both. The board shall approve courses to satisfy this requirement.

[4]Per the Standards of Quality, credits earned for this requirement shall include one credit in fine or performing arts or career and technical education. Per the Standards of Quality, a computer science course credit earned by students may be considered a career and technical course credit.

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

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

Additional Requirements for Graduation

- **SOLs**-Students must earn five verified units of credit. Students earn verified credits by successfully completing required courses and passing the associated end of course SOL test or other assessments approved by the state Board of Education. The required number of SOL's to graduate are as follows: one each in English reading, English writing, mathematics, science, and history/social science). Students may only locally verify one SOL in any area. In English writing, a student may verify course mastery through a locally developed performance-based assessment. Performance assessments require students to apply what they have learned and provide an opportunity for students to demonstrate that they have acquired critical thinking, creative thinking, communication, collaboration and citizenship skills

- **AP, Honors, IB, Dual Enrollment, Work-Based Learning, or CTE Credential** - Students shall (i) complete an Advanced Placement, honors, International Baccalaureate, or dual enrollment course; or (ii) complete a high-quality work-based learning experience, as established by Board guidance on work-based learning; or (iii) earn a career and technical education credential approved by the board, except when a career and technical education credential in a particular subject area is not readily available

or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to satisfy the advanced studies diploma requirements. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness assessment.

- **Virtual Course** - Students shall successfully complete one virtual course, which may be a non-credit-bearing course or a required course or an elective credit-bearing course that is offered online.

- **Training in emergency first aid, cardiopulmonary resuscitation (CPR), and the use of automated external defibrillators (AED)** - Students shall be trained in emergency first aid, CPR, and the use of AED, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation. Students with an IEP or a 504 Plan that documents that they cannot successfully complete this training shall be granted a waiver from this graduation requirement, as provided in 8VAC20-131-420 B.

- **Demonstration of the five Cs**-Students shall acquire and demonstrate foundational skills in critical thinking, creative thinking, collaboration, communication, and citizenship in accordance with the Profile of a Virginia Graduate approved by the board.

Advanced Studies Diploma (5 verified credits)

Courses	Credits
English	4
Math[1]	4
Science[2]	4
Social Sciences[3]	4
Health & PE	2
World Language[4]	3
Fine Arts or Career & Technical Education[5]	1
Economics & Personal Finance	1
Electives[6]	3
Total	**26**

[1]Courses completed to satisfy this requirement shall include at least three different course selections from among: algebra I, geometry, algebra II, or other mathematics courses above the level of algebra II. The board shall approve courses to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a mathematics course credit

[2]Courses completed to satisfy this requirement shall include course selections from at least three different science disciplines from among: earth sciences, biology, chemistry, or physics or completion of the sequence of science courses required for the International Baccalaureate Diploma and shall include interdisciplinary courses that incorporate Standards of Learning content from multiple academic areas. The board shall approve additional courses to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a science course credit

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

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

[5]Per the Standards of Quality, a computer science course credit earned by students may be considered a career and technical credit.

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

Additional Requirements for Graduation

- **SOLs**-Students must earn five verified units of credit. Students earn verified credits by successfully completing required courses and passing the associated end of course SOL test or other assessments approved by the state Board of Education.

- **AP, Honors, IB, Dual Enrollment, Work-Based Learning, or CTE Credential** - Students shall (i) complete an Advanced Placement, honors, International Baccalaureate, or dual enrollment course; or (ii) complete a high-quality work-based learning

experience, as established by Board guidance on work-based learning; or (iii) earn a career and technical education credential approved by the board, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to satisfy the advanced studies diploma requirements. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness assessment.

- **Virtual Course** - Students shall successfully complete one virtual course, which may be a non-credit-bearing course or a required course or an elective credit-bearing course that is offered online.

- **Training in emergency first aid, cardiopulmonary resuscitation (CPR), and the use of automated external defibrillators (AED)** - Students shall be trained in emergency first aid, CPR, and the use of AED, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation. Students with an IEP or 504 Plan that documents that they cannot successfully complete this training shall be granted a waiver from this graduation requirement, as provided in 8VAC20-131-420 B.

- **Demonstration of the five Cs** - Students shall acquire and demonstrate foundational skills in critical thinking, creative thinking, collaboration, communication, and citizenship in accordance with the Profile of a Virginia Graduate approved by the board.

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. Students who earn this diploma are not be eligible for federal or state financial aid when pursuing post-secondary education

Certificate of Program Completion

Available to students who complete the prescribed program of studies by Pulaski County School Board, but who do not qualify for a diploma due to lack of SOL's or Industry Credentialing tests. Students must pass all required coursework to earn the Certificate of Program Completion. Students who earn the Certificate of Program Completion are eligible to participate in the graduation ceremony.

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:

- Agriculture, Food & Natural Resources
- Architecture & Construction
- Arts, A/V Technology & Communications
- Business Management & Administration
- Education & Training
- Health Science
- Hospitality and Tourism
- Information Technology
- Law, Public Safety, Corrections & Security
- Manufacturing
- Marketing, Sales & Service
- STEM
- Transportation, Distribution & Logistics

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 Theater Arts.

Diploma Seals

- Governor's Seal
- Board of Education Seal
- Board of Education Career and Technical Education Seal
- Board of Education Diploma Seal for Science, Technology, Engineering, and Mathematics (STEM)
- Board of Education's Excellence in Civics Education

- Board of Education's Seal of Biliteracy
- Board of Education's Seal for Excellence in Science and the Environment

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 Science, Technology, Engineering, and Mathematics (STEM) Seal

- Fulfill the requirements for either a standard or advanced diploma, **and**
- Satisfy all Math and Science requirements for the Advanced Studies Diploma with a "B" average or better in all course work, **and**
- Successfully complete a 50 hour or more work-based learning opportunity in a STEM area, **and**
- Satisfy all requirements for a Career and Technical Education concentration. A concentration is a coherent sequence of two or more state-approved courses as identified in the course listing within the CTE Administrative Planning Guide, **and**
- Pass <u>one</u> of the following: a Board of Education CTE STEM-H credential examination **or** an examination approved by the Board that confers a college-level credit in a STEM field.

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 Excellence in Civics Education Seal

- Satisfy requirements 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**
- 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 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 the purpose 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.

To Earn the Board of Education's Seal for Excellence in Science and the Environment

- Earn either a Standard or Advanced Studies Diploma
- Complete at least three different first-level board-approved laboratory science courses and at least one rigorous advanced-level or postsecondary-level laboratory science course, each with a grade of "B" or higher
- Complete laboratory or field-science research and present that research in a formal, juried setting
- Complete at least 50 hours of voluntary participation in community service or extracurricular activities that involve the application of science such as environmental monitoring, protection, management, or restoration

Academic Departmental Honor Cord Criteria

Academic Departmental Honors
*This criteria effective with the Class of 2029
*Included courses are anything that meets a Core Subject requirement for graduation. Elective courses are not counted.

Department	**Programs/ Courses**	**Qualifications**	**Cord Color**
English	9, 10, 11, 12 Academic, Honors, and Dual Classes ● English 9 ● English 10 ● English 11 ● English 12 * These are the 4 classes required for graduation AND the only classes considered for an English cord.	Minimum of 4 English courses **AND** Minimum of 4.0 average in courses	Solid White
Math	Academic, Honors, and Dual Classes ● Algebra I ● Geometry ● Algebra II ● Alg I Part 2 ● AFDA ● Adv. Algebra/Trigonometry ● Pre-Calculus DE part I ● Pre-Calculus DE part II ● Calculus DE ● Prob/Stat ● Quantitative Reasoning DE ● Statistical Reasoning DE ● Fundamentals of Reasoning DE *This does not include Alg 1 Part 1. It is an elective	Minimum of 4 Math courses **AND** Minimum of 4.0 average in courses	Gold

	credit. * If more than 4 of the listed math courses are taken, you must have an A average in those courses.		
Science	Academic, Honors, and Dual Classes ● Earth Science ● Biology ● Biology II & Ecology ● Chemistry ● Physics ● Environmental Science ● Oceanography ● Astronomy ● Bio I Dual ● Bio II Dual *If more than 4 of the listed science courses are taken, you must have an A average in those courses.	Minimum of 4 Science courses **AND** Minimum of 4.0 average in courses	Bronze
Social Studies	9, 10, 11, 12 Academic, Honors, AP, and Dual Classes ● USH ● US Government ● WHI ● WH II ● AP Euro *If more than 4 of the listed social studies classes are taken, you must have an A average in those courses.	Minimum of 4 Social Studies courses **AND** Minimum of 4.0 average in courses	Royal Blue, Royal Blue, and White
Health & Physical Education	PE 9, PE 10, Personal Fitness, Recreational Sports *If more than 4 Health & PE classes are taken, you must have A's in those courses.	Minimum of 4 Health & Physical Education/ Personal Fitness or Rec. Sports **AND** A's in PE9, PE10, and other PE courses	Silver
Fine Arts	All Art, Band, Chorus, Theater Arts *If more than 4 Fine Arts classes are taken, you must have A's in those courses.	Minimum of 4 Fine Arts Courses in any combination from Art, Band, Chorus, and Drama **AND** A's in the Fine Arts Courses	Pink

Foreign Language	French, Spanish **must have an A in 3 years of the same language, this would include having a lower grade in one year if 4 years are taken.	Student must complete a minimum of 3 years of the same language **AND** A's in the courses	Red, White, and Royal Blue
Honors	Overall GPA/Guidance	GPA 3.6-3.79	Blue tassel/ medallion
High Honors	Overall GPA/Guidance	GPA 3.8 - 3.99	Silver tassel/ medallion
Highest Honors	Overall GPA/Guidance	GPA 4.0 or above	Gold tassel/ medallion

CTE Departmental Honor Cord Criteria

*This criteria effective with the Class of 2029

***A student may earn no more than one cord per career cluster. For example, if a student meets the qualifications for Early Childhood and Virginia Teachers, they will receive ONE Education & Training Cord.**

Career Cluster	Programs/ Courses	Qualifications	Cord
Hospitality & Tourism	Culinary Arts	Culinary Arts I Culinary Arts II AND GPA of 3.5 in program	Double Cord - Red & White tied together
Education & Training	Early Childhood Education	ECE I ECE I I AND GPA of 3.5 in program	Double Cord - Royal Blue & Forest Green
Education & Training	Virginia Teachers	Intro to VA TFT & VA TFT DE AND GPA of 3.5 in program	Double Cord - Royal Blue & Forest Green
Agriculture, Food & Natural Resources	Animal, Horticulture, Agriculture	Complete at least 3 Ag courses AND 3.5 GPA or higher. (Class options: Applied Ag,Agricultural Production, Small Animal/Vet Science, Horticulture, Equine, Fisheries, Floriculture, Floral Design, Greenhouse Plant Prod)	Forest Green

Business Management & Administration	Accounting	Accounting I Accounting II AND GPA of 3.5 in program	Black
Business Management & Administration	CIS I & CIS II	CIS I CIS II AND GPA of 3.5 in program	Black
Business Management & Administration	Business: Accounting I CIS I Entrepreneurship	Combination of any 2 business classes AND GPA of 3.5 in the program	Black
Marketing, Sales & Service	Marketing	Combination of any 2 marketing courses or a marketing and entrepreneurship AND GPA of 3.5 in program	Double Cord - Royal Blue & White tied together
Health Science **Only look at 2 of the courses if more than 3, so you are not penalized.	Health Assisting Careers	Complete 2 of the 3 HMS courses. (Intro to Health/Medical; Health Assisting (CNA); Medical Terminology) AND 3.5 GPA	Red, Red, and White
Health Science	Pharmacy Tech	Complete part I and II Pharmacy tech course w/ clinicals AND 3.5 GPA	Red, Red, and White
Health Science	Emergency Medical Technician	EMT I, EMT II, EMT III AND 3.5 GPA	Red, Red, and White
STEM	Maker Lab	Maker Lab I & Construction Technology OR Maker Lab I, II, and III OR Maker I and Manufacturing OR Manufacturing I and II AND 3.5 GPA in Program	Black and Silver
STEM	Engineering	Engineering I Engineering II AND 3.5 GPA in program	Black and Silver
STEM	Robotics	Maker Lab I	Black and Silver

		Maker Lab II Robotics or Manufacturing I and Robotics AND 3.5 GPA in program	
Information Technology	Cybersecurity	Cybersecurity Fundamentals, Cyber Systems Technology, & Adv. Cyber Systems Tech AND GPA of 3.5 in program	Light Blue
Transportation, Distribution & Logistics	Automotive Technology	Automotive Tech I, II, & III AND GPA of 3.5 in program	Black and White
Transportation, Distribution & Logistics	Collision Repair Technology	Collision Repair Technology I, II, & III AND GPA of 3.5 in program	Black and White
Architecture & Construction	Carpentry	Carpentry I, II, & III AND GPA of 3.5 in program	Black, Black, and Gold
Architecture & Construction	Electricity	Electricity I Electricity II Electricity III AND GPA of 3.5 in program	Black, Black, and Gold
Human Services	Cosmetology	Cosmetology I, II, & III AND GPA of 3.5 in program	Red/Gold
Law, Public Safety, Corrections & Security	Criminal Justice	Criminal Justice I & II AND GPA of 3.5 in program	Double Cord - Black & Navy Tied Together
Manufacturing	Welding	Welding I Welding II Welding III AND GPA of 3.5 in program	Orange
Arts, A/V Technology & Communications	TV/Media Production	TV/Media I TV Media II TV Media III AND GPA of 3.5 in program	Double Cord - Maroon & White Tied Together

Student Athlete Recognition For VHSL Sanctioned Sports

Student Athlete Minimum Standards

- The student-athlete will need to have completed three seasons of lettering. This may be in one sport (EX: playing varsity football as a sophomore, junior, and senior = 3 seasons) OR playing multiple sports (EX: playing Varsity Volleyball as a Junior and Senior and playing Varsity Softball as a Junior and Senior = 4 seasons)
- This includes successful participation on each team as determined by the coach (Poor sportsmanship, quitting the team before the season, being removed from the team, etc would NOT indicate successful participation.)
- Student Athletes will receive a Gold Stole indicating that they are an athlete.

Student Scholar Athlete Minimum Standards

- In addition to the standards listed above, the student athlete must maintain a 3.6 overall GPA.
- Student Scholar Athletes will receive the Gold Stole indicating that they are a Scholar Athlete.

*To be considered for the Student/Scholar Athlete Stole, the student must complete a Google Form showing that he or she is eligible. Once the form has been completed, eligibility will be verified with coaches.

Valedictorian and Salutatorian

Beginning with the graduating class of 2029, PCHS will recognize valedictorian and salutatorian honors. The valedictorian is the student in the graduating class who possesses the highest GPA (grade point average) at the conclusion of 8 semesters of coursework at PCHS. The salutatorian is the student in the graduating class who possesses the second highest GPA (grade point average) at the conclusion of 8 semesters of coursework at PCHS.

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.

Social Studies:

- World History to 1500 AD/World Geography
- World History 100 AD to Present/World Geography and AP European History
- United States History

Mathematics:

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

Science:

- Earth Science
- Biology
- Chemistry

English

- Reading SOL for English 11
- Writing SOL for English 11

Industry Certification and Licensure

Successful completion of these programs 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:

- **Collision Repair Technology III –** NATEF/ASE (Non-structural, Refinishing)
- **Automotive Technology II -** NATEF/ASE- Various Certifications
- **Automotive Technology III -** NATEF/ASE- Various certifications
- **Computer Information Systems I (CIS) –** Microsoft Office Examination

- **Computer Information Systems II (CIS) –** Microsoft Office Examination
- **Cosmetology III –** Virginia Cosmetology State Board (Licensure)
- **Culinary Arts and Restaurant Management II** ServSafe Manager Certification
- **Early Childhood Education and Services II –** CDA- Child Development Associate
- **Emergency Medical Technician III-** Virginia State Psychomotor Exam and the National Registry of Emergency Medical Technicians (NREMT)
- **Economics and Personal Finance –** Workplace Readiness Skills for the Commonwealth
- **Health Assisting Careers –** Certified Nursing Assistant (CNA Licensure)
- **Pharmacy Technology II-** Certified Pharmacy Technician (CPhT) Examination
- **Welding III –** American Welding Society, SENSE Entry-Level Welder
- **Veterinary Science-** Allied Health Certified VeterinaryAssistant
- **Virginia Teachers for Tomorrow I-** ParaPro Assessment

Course Descriptions

Agriculture, Food & Natural Resources

Applied Agriculture Concepts

8073 (1 credit)
Grade Level: 9, 10, 11, and 12

This course offers an introduction to the agriculture industry, focusing on food production, handling, and preparation. It provides an overview of the livestock and poultry sectors, explores plant systems, disease and pest management, and soil care. Additionally, students will learn basic maintenance of home appliances and equipment, along with fundamental skills in plumbing, electrical wiring, and carpentry. The course highlights leadership development activities and participation in FFA and Supervised Agricultural Experiences on a daily basis through agricultural based chores and hands-on learning. There is a minimal class fee required to be in this class.

Agricultural Production Technology

8011 (1 credit)
Grade Level: 10, 11, and 12
Prerequisite: Applied Agricultural Concepts or Introduction to Animal Systems

This course provides instruction in plant and animal science for students interested in career pathways related to agriculture production. Course content also includes shop safety, mechanics, soil science, crop production, managing natural resources, livestock and poultry production, exploring security in agricultural industries, precision agriculture, and business. The course highlights leadership development activities and participation in FFA and Supervised Agricultural Experiences on a daily basis through agricultural based chores and hands-on learning. *There is a minimal class fee required to be in this class.*

Wildlife Management

8041 (1 credit)
Grade:-11 and 12
Prerequisite: none

This course dives into the world of wildlife and aquatic management, learning how to identify and manage different species both plants and animals and their habitats. Content explores avian species, reptiles, and amphibians up close while also covering the history of wildlife management, and the major North American biomes. Students will gain hands-on experience in managing water quality and fisheries, along with trail and habitat restoration/management. The course highlights leadership development activities and participation in FFA and Supervised Agricultural Experiences on a daily basis through agricultural based chores and hands-on learning. There is a minimal class fee required to be in this class.

Horticulture Sciences (Plant Science)

8034 (1 credit)
Grade Level: 9, 10, 11 and 12
Prerequisite: None

This plant science course will help students develop the knowledge and skills in areas like floriculture, landscape design, greenhouse operations, nursery plant production, and turf management. Students will learn how to work with soil and other plant-growing media, as well as how to identify, propagate, and grow a variety of plants in both greenhouse and outdoor environments. Plus, students gain real-world experience by managing the Student Run Enterprise, which includes operating the greenhouses and overseeing floral shop sales.The course highlights leadership development activities and participation in FFA and Supervised Agricultural Experiences on a daily basis through agricultural based chores and hands-on learning. There is a minimal class fee required to be in this class.

Floriculture

8038 (1 credit)
Grade Level: 10, 11, and 12
Prerequisite: Horticulture Sciences

In this course, students will continue to learn the basics of the horticulture plant production industry. They'll explore the science behind plant production while also gaining skills in marketing and business management. From identifying plant materials to learning floral design, this course will prepare students for an entry-level position in the floriculture industry. Students will also put these skills into practice by managing the Student Run Enterprise, which includes operating the greenhouses and overseeing floral shop sales.The course highlights leadership development activities and participation in FFA and Supervised Agricultural Experiences on a daily basis through agricultural based chores and hands-on learning. There is a minimal class fee required to be in this class.

Greenhouse Plant Production

8035 (1 credit)
Grade Level: 11, and 12
Prerequisite: Horticulture Sciences

This course prepares students for postsecondary educational career programs and entry-level positions in the horticulture and greenhouse plant production and management industries. Instruction includes industry safety procedures used in greenhouse plant production; plant identification; the science of plant production; development of plant production facilities; greenhouse management and operations; business management; and marketing strategies used in the Green Industry. Contextual instruction and student participation in co-curricular career and technical student organization (CTSO) activities will develop leadership, interpersonal, and career skills. High-quality work-based learning (HQWBL) will provide experiential learning opportunities related to students' career goals and/or interests, integrated with instruction, and performed in partnership with local businesses and organizations.There is a minimal class fee required to be in this class. Greenhouse managers certification is offered with this course.

Small Animal Care

8083 (1 credit)
Grade Level: 9, 10, and 11
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. The course highlights leadership development activities and participation in FFA and Supervised Agricultural Experiences on a daily basis through agricultural based chores and hands-on learning.

Introduction to Animal Systems

8008 (1 credit)
Grade Level: 9, 10, and 11
Prerequisite: None

Students develop skills 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. The course highlights leadership development activities and participation in FFA and Supervised Agricultural Experiences on a daily basis through agricultural based chores and hands-on learning. *There is a minimal class fee required to be in this class.*

Veterinary Science

8088 (1 credit)
Grade Level: 11, 12
Prerequisite: Small Animal Care I
EOC Test: Allied Health, Certified Veterinary Assistant

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.

Architecture & Construction

Construction Technology

8432(1 credit)
Grade Level: 9, 10, 11, and 12
Prerequisite: None

Students build structures and engage in hands-on projects exposing them to commercial, industrial, residential, public works and institutional technologies to help them understand construction careers. They learn proper safety procedures for tools and machinery, vocabulary and terms associated with construction, blueprint reading and symbols associated with architecture, and math concepts and principles used in construction.

Carpentry I

8601 (1 credit)
Grade Level: 10 and 11

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, 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.
There is minimal class fee required to be in this class.

Carpentry II Dual Enrollment

8602 (2 credits, 2 blocks) (NRCC classes BLD 110 & BLD 125, 6 college credits - only offered through dual enrollment)
Grade Level: 11 and 12
Prerequisite: Carpentry I, a NRCC Application and parent signature on file at NRCC

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, ceiling, roofs, decks, and porches. In addition, students are introduced to basic rigging, learn to estimate and select building materials, and install cabinets.

Carpentry III Dual Enrollment

8603 (2 credits, 2 blocks) (NRCC classes BLD 1126 & BLD 135, 6 college credits - only offered through dual enrollment)
Grade Level: 12
Prerequisite: Carpentry II Dual Enrollment

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.

Electricity I

8533 (1 credit)
Grade Level: 10 and 11

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 electrical 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. Students will have the opportunity to obtain OSHA 10 certifications.

Electricity II Dual Enrollment

8534 (2 credit, 2 blocks) (NRCC classes ELE 111 & ELE 112, 6 credits - only offered through dual enrollment)
Grade Level: 11 and 12
Prerequisite: Electricity I, a NRCC Application and parent signature on file at NRCC

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 (NCTT) or another certification exam upon successful completion of this class. Students will have the opportunity to obtain OSHA 10 certifications.

Electricity III Dual Enrollment

8535 (2 credits, 2 blocks) (NRCC classes ELE 113 & ELE 114, 6 credits - only offered through dual enrollment)
Grade Level: 11 and 12
Prerequisite: Electricity II Dual Enrollment
EOC Test: Skills USA, Electrical Construction Wiring Exam

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.

TV/Media Production I

8688 (1 credit)
Grade Level: 9, 10, 11, and 12

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: Successful Completion of TV/Media Production I

This course is a continuation of TV/Media Production II. Emphasis is placed on video capture, producing, directing, editing and use of professional audio and video equipment. 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 the artistic and technical aspects of professional media production. Students will be responsible to maintain a project schedule from beginning to end with the teacher role being technical support.

TV/Media Production III

8690 (2 credits, 2 blocks)
Grade Level: 11 and 12
Prerequisite: Successful Completion of TV/Media Production II

This course is a continuation of TV/Media Production II. Emphasis is placed on video capture, producing, directing, editing and use of professional audio and video equipment with little or no teacher involvement. TV/Media Production III students should demonstrate leadership and advanced technical and aesthetic knowledge of media production techniques. These students will be responsible for studio operations and will take a cooperative learning approach with TV/Media II students.

Accounting I

6320 (1 credit)
Grade Level: 10, 11, and 12

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

Accounting II

6321 (1 credit)
Grade Level: 11 and 12
Prerequisite: Accounting I

This class is a continuation of Accounting I and introduces accounting principles with respect to cost and managerial accounting. Accounting II covers fundamental accounting concepts and principles governing the accounting cycle, journals, ledgers, working papers, and preparation of financial statements for sole proprietorships. Once students complete this series of classes, they will be prepared to work within the accounting setting of a business.

Economics and Personal Finance

6120 (1 credit)
Grade Level: 10, 11, and 12
Prerequisite: None
EOC Test: Workplace Readiness Skills for the Commonwealth

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 W!SE Financial Literacy Exam.

Computer Information Systems I

6612 (1 credit)
Grade Level: 9,10, 11, and 12
EOC Test: Microsoft Office Examinations

In this class, students will apply problem-solving skills to real life situations through word processing, spreadsheets, databases, multimedia presentations, and integrated software activities. Students will work individually and in groups to explore computer concepts, operating systems, networks, telecommunications, and emerging technologies. This class will provide a solid foundation for many computer courses taught at the college level.

Computer Information Systems II

6613 (1 credit)
Grade Level: 10, 11, and 12
Prerequisite: Computer Information Systems I
EOC Test: Microsoft Office Examinations

This course is a continuation of Computer Information Systems I. Everything learned in Computer Information Systems I, will be put to use as students learn how to develop dynamic web pages and advanced illustrations. Upon successful completion of Computer Information Systems I and II students will have the opportunity to complete a certification exam.

English

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 student 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 student's 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 literacy 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 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. Al 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.

English 11

1112 (1 credit)
Grade Level: 11
Prerequisite: English 10
EOC Test: Standards of Accreditation requires an End of Course Writing and Reading test.

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 Dual Enrollment

1115 (1 credit high school credit) (NRCC classes English 111 & English 112, 6 college credits)
Grade Level: 11
Prerequisites: English 10, Recommendation from English 10 teacher, an NRCC application and parent signature on file with NRCC, and; successfully complete the NRCC Eng 111 (1st nine weeks) prior to entering NRCC Eng 112 (2nd 9 weeks)
EOC Test: Standards of Accreditation requires an End of Course Writing and Reading test.

This course is designed to allow the student who is academically advanced and enroll in a college course during their junior year. The course develops writing skills for study, work, and other areas of writing based on experience, observation, research and reading of selected literature. Students will be guided in learning writing as a process and the following concepts: understanding audience and purpose, exploring ideas and information, composing, revising, and editing. Students will learn to support their writing by integrating, composing, revising, and editing skills and by integrating experiences in thinking, reading, listening, and speaking. English 11 Dual Enrollment addresses Grade 11 Virginia Standards of Learning. It is an End of Course (EOC) course and students are required to pass both an EOC Writing SOL and an EOC Reading SOL.

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 instructions 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 & English 112, 6 college credits)
Grade Level: 12
Prerequisite: English 11, Recommendation from English 11 teacher, an NRCC application and parent signature on file with NRCC and; successfully complete NRCC English 111 (1st nine weeks) prior to entering NRCC English 112 (2nd nine weeks).

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 skills 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 225 & English 245 6 college credits)
Grade Level: 11 or 12
Prerequisite: A letter grade of C or better in English 11 or 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.

English Electives

Core English

1091 (1 credit)
Grade Level: 9, 10, 11 & 12
Prerequisite: None

This course is for students who need to strengthen their reading and writing skills.The course also prepares students for the reading and writing SOL's.

Creative Writing Workshop I and II

1171 (1 credit)
Grade Level: 9, 10, 11, 12
Prerequisite: None

In this course, students will explore the art of storytelling by sharing their work, examining and modeling the methods of professional writers, and studying timeless classic and modern works. Students will discuss what makes "good writing" and help one another write and revise original pieces (through a workshopping model), including short fiction, creative nonfiction, personal narrative, poetry, screenplay/drama, and other creative works. Students will explore and choose methods by which to publish their work, including but not limited to: public contests/showcases, live performances, and/or submission to school/community publications.

Humanities Dual Enrollment

2955 (1 credit) (NRCC Classes HUM 201 & HUM 259, 6 college credits)
Grade Level: 11 and 12
Prerequisite: NRCC application and parent signature on file with NRCC and a 3.0 gpa minimum

This course examines human civilization through the values and expression of selected Western and non-Western cultures from prehistory up to the 1300s. This interdisciplinary course transcends traditional boundaries by integrating the arts, literature, religion, and philosophy within the broader context of historical and human development. Students will explore the profound impact of Greek and Roman cultures on individuals and societies, as we trace their influence from the Classical Age in Athens through their survival during Roman times and their relevance in today's world. The main focus is to examine the significance of these civilizations on shaping narratives, theatrical traditions, philosophical thought, civic structures, political morphology, and the arts within the context of humanity in today's world.

World Mythology: Myths, Legends and Fables

1165 (1 credit)
Grade Level: 9, 10, 11, 12
Prerequisite: None

Students will take an in-depth look at the fascinating world of myths, legends and fables. Students will trace similarities and differences across cultures and continents. Students will explore myths, legends and fables as world-wide phenomenon, analyze their role in modern culture and literature, learn how to conduct comparative analysis of literary texts, engage in academic discussion and improve both formal and informal interpersonal communication skills, effectively conduct research and organize finding into intriguing presentations and learn to work independently and collaboratively on both short and long term projects.

World Mythology II: Beyond Olympus & Asgard

Grade Level: 10, 11, 12
Prerequisite: Successful completion of World Mythology 1

World Mythology II expands students' exploration of mythology beyond the Greek, Roman, and Norse traditions introduced in World Mythology I. Students will investigate myths, legends, folklore, heroes, tricksters, supernatural beings, and monsters from cultures around the world. Possible areas of study include Egyptian, Chinese, Japanese, African, Indigenous American, Polynesian, Caribbean traditions and more. Through reading, research, discussion, comparison, and creative projects, students will examine how cultures use stories to explain the natural world, explore questions about life and death, preserve cultural values, confront fears, and define heroes and villains.

This course emphasizes independent inquiry, cultural comparison, creativity, and critical thinking. Students should be prepared to read and analyze a variety of texts and complete both individual and collaborative projects.

Dystopian Literature

Grade Level: 10, 11, 12
Prerequisite: None

What happens when society goes wrong? In this course, students will explore dystopian worlds through novels, short stories, and films that challenge ideas about power, control, justice, and identity. From classic texts to modern adaptations, students will analyze how these stories reflect real-world issues and historical contexts.

Through discussion, writing, and creative projects, students will build critical thinking skills while making connections between literature and the world around them. This course is ideal for students who enjoy thought-provoking texts, film analysis, and exploring "what if" scenarios about the future of society.

The Bible as Literature

1131 (1 credit)
Grade Level: 10, 11, and 12
Prerequisite: None

Students will read the Bible with a focus on the historical impact and literary style from texts of the Old Testament and/or New Testament era. Learning will focus on knowledge of biblical content, characters, poetry and narratives that are prerequisites to understanding contemporary society and culture, including literature, art, music, mores, oratory and public policy.

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, productions and publication.

Education and Training

Early Childhood Education

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 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, 11, and 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 focus on the principles of child growth and 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.

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:10, 11 and 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 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 and 1**2**
Prerequisite: Early Childhood Education I and TB test verification must be provided.
EOC Test: CDA-Child Development Associate
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 the student with 480 hours of professional work experience, a completed portfolio and a passing score on the CDA exam will be awarded the Child Development Associate Certification.

Early Childhood Education Internship (Individual Development)

8210 (1 credit)
Grade Level: 11 and 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.

Introduction to Virginia Teachers for Tomorrow

9060 (1 credit, 1 block)
Grade Level: 9,10, 11, and 12

This class introduces the Virginia Teachers for Tomorrow (VTfT) program to students. This class introduces them to a career in teaching. It was created to increase student interest and knowledge about a career in education and start them on that path. It gives students a chance to see what a career in education will look like. Students are taught to work with peers, how to build positive classrooms, and to recognize learning differences of others. They look at their role in school from the perspective of teachers and school principals. Classwork is designed to help students set career goals in education. This class may be the beginning of the student's participation in the education career cluster. More participation in the professional organization "Educators Rising" can result from being a part of this class. *There is a minimal class fee required to be in this class.*

Virginia Teachers for Tomorrow I Dual Enrollment

9062 (2 credit, 2 block) (NRCC class EDU 200, 3 college credits)
Grade Level: 10, 11 and 12

Prerequisite: Intro to Virginia Teacher for Tomorrow or Intro to Early Childhood Education; NRCC application and parent signature on file with NRCC and minimum 3.0 GPA

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.
There is a minimal class fee required to be in this class.

Fine Arts

Arts & Crafts
9110 (1 credit)
Grade Level: 9, 10, 11 and 12
Prerequisite: None

Arts & Crafts is a craft based Art course intended for the students who are interested in the creative process, but not interested in the fine art aspect [drawing/painting]. Students will participate in many different kinds of art projects ranging from bracelets, bookmarks, mixed media, to papier mache and upcycling. Students will be required to participate in the school art show. A minimal art fee is required for this class.

Art I Foundations
9120 (1 credit)
Grade Level: 9, 10, 11 and 12
Prerequisite: None

Art 1 Foundations is an entry-level art class and is a prerequisite for the more advanced art classes. In this course students will explore art as it relates to history, the environment & his/her own personal experiences. Students will have the ability to use a variety of art mediums to create wonderful art masterpieces. This is a great course for students to take to begin to advance their art skills. Students will be required to keep a sketchbook of their work as well as participate in the school art show. A minimal art fee is required to be in this class.

Art II Foundations
9130 (1 credit)
Grade Level: 9, 10, 11 and 12
Prerequisite: Art 1

Art 2 Foundations is a second level art class, where students will begin to develop an understanding of art by incorporating the elements and principles of design into their work. Emphasis is placed on the further development of the students drawing and design skills through a variety of 2D & 3D projects and is designed to expand the students knowledge of a variety of mediums. Students will be required to keep a sketchbook as well as participate in the school art show. This course may be taken once for credit. A minimal art fee is required to be in this class.

Advanced Art III 2-D
9141 (1 credit)
Grade Level: 10, 11 and 12

Prerequisite: Art I & Art II

Advanced Art III requires two prior levels of art. This is an advanced 2-D art class, where students will be expected to relate art history and experiences to create dynamic 2-D artwork. Students will use a variety of mediums to advance their drawing skills. This course will focus mainly on drawing techniques & challenging students to explore styles of art outside their comfort zone. Weekly sketchbook assignments will be required, as well as participation in the school art show. This course may be taken twice for credit. A $15 art fee is required to be in this class.

Advanced Art IV 3-D

9146 (1 credit)
Grade Level: 10, 11 and 12
Prerequisite: Art I, Art II,

Advanced Art IV 3D requires two prior levels of art. This course is an advanced level class students can take to dive into a variety of 3-D art making. Students will work with clay, upcycled materials, plaster, papier mache and many other mediums to create propelling pieces of art. This is an all hands on class where students are required to work daily with their hands. Weekly sketchbook assignments are required, as well as participation in the school art show. A minimal art fee is required to be in this class.

Advanced Digital Drawing & Painting

9134 (1 credit)
Grade Level: 10, 11 and 12
Prerequisite: Art 1 & Art II

Advanced Digital Drawing & Painting is an advanced art class for those students who would like to explore the different methods and styles of digital art. Students will be learning the program Procreate. In this course students will synthesize traditional drawing and painting skills with digital tools. This includes the study of digital imaging, drawing systems, color theory and idea generation. This is not a graphic design class. No iPad is required to be in this class. There is a minimal class fee required to be in this class. Weekly drawings are required as well as participation in the school art show. Students can take this class twice for credit.

Art V - Independent Studies

9148 (1 credit)
Grade Level: 11 and 12
Prerequisite: Art I, Art II, and two advanced Art courses

Independent Studies Art is for those students who are looking at applying to art colleges. A high level advanced class where students will be working mostly independently on creating artwork to build a portfolio for college application submission. Students will be required to complete a set number of projects throughout the course and participate in the school art show. A $15 art fee is required for this course.

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, performances at the district and state level, choral competitions and 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 music 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 music 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.

Treble Chorus

9294 (1 credit)
Grade Level: 9, 10, 11, and 12
Prerequisite: Audition and previous choral experience

This choral group made up of treble voices will study and perform traditional and contemporary choral literature while, at times, adding choreography. Instruction will be given in the areas of general choral music, music theory and performance techniques. . Performances will include school and community events, performances at district and state levels, choral competitions and concerts. Out-of-class rehearsals and performances are required.

Beginning Instrumental Band

9231 (1 credit)
Grade Level: 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.

Concert Band

9230 (1 credit)
Grade Level: 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 Appreciation Dual Enrollment

9203 (1 credit) (NRCC classes MUS 121 & MUS 221, 6 college credits)
Grade Level: 11 and 12
Prerequisite: NRCC application and parent signature on file with NRCC and a 3.0 GPA minimum

Explores the language of music through an introduction to basic elements, forms and styles across time. Acquaints students with composers' lives and influential creative individualities, discovering representative works and milestones in western society. Develops techniques for listening analytically and critically. Reviews historical development and significance of art music within the context of evolving societal structures.

Symphonic Band

9229 (1 credit)
Grade Level: 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.

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.

Stagecraft 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. 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

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.

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: 9, 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 expected 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 Sciences

Introduction to Health and Medical Sciences
8302 (1 credit)
Grade Level: 10, 11, and 12
Prerequisite: None

This course introduces the student to a variety of healthcare careers and develops basic skills required in all health and medical sciences. It is designed to help students understand the key elements of the U.S. healthcare system and to learn basic healthcare terminology, anatomy and physiology for each body system, pathologies, diagnostic and clinical procedures, therapeutic interventions, and the fundamentals of traumatic and medical emergency care. Instruction emphasizes safety, cleanliness, asepsis, professionalism, accountability, and efficiency within the healthcare environment. Students also begin gaining job-seeking skills for entry into the health and medical sciences field. Students may learn the basics of medical laboratory procedures, pharmacology fundamentals, biotechnology concepts, and communication skills essential for providing quality patient care. Students will participate in the cocurricular HOSA Club. **Optional: Students will have the opportunity to become certified in CPR, AED, and first aid through the American Red Cross.

Pharmacy Technician I
8305 (1 credit)
Grade Level: 11 and 12
Prerequisite: None

This certificate program is designed to provide students with the basic skills and knowledge to begin work as a pharmacy technician. The coursework will fulfill the requirements of the Board of Pharmacy and American Society of Health-System Pharmacists(ASHP).

This course will prepare students to take the national examination administered by the Pharmacy Technician Certification Board. Trained, experienced pharmacy technicians who can demonstrate the right skills and knowledge should be able to pursue many exciting and respected career options or postsecondary study in the pharmacy field. Students will participate in the cocurricular HOSA Club.

Pharmacy Technician II

8306 (3 credits, 3 blocks)
Grade Level: 11 and 12
Prerequisites: Pharmacy Technician I
EOC Test: Certified Pharmacy Technician (CPhT) Examination

This certificate program is designed to provide students with the basic skills and knowledge to begin work as a pharmacy technician. The coursework will fulfill the requirements of the Board of Pharmacy and American Society of Health-Systems Pharmacist(ASHP). This course will prepare students to take the national examination administered by the Pharmacy Technician Certification Board. Trained, experienced pharmacy technicians who can demonstrate the right skills and knowledge should be able to pursue many exciting and respected career options or postsecondary study in the pharmacy field.Students will participate in the cocurricular HOSA Club.

Nurse Aide CTE Dual Enrollment (1 credit) (NRCC class NUR 27, 5 college credits)

8341 Grade Level: 11 and 12
Prerequisite: Successful completion of Introduction to Health and Medical Science (minimum "C" Average) and NRCC application and parent signature on file

Nurse Aide is a comprehensive occupational training course that focuses on human body systems and common diseases. Students are prepared for advanced clinical care of patients in medical-surgical, rehabilitative, and community health settings. Students receive skills training in patient care, safety, and infection control, and hands-on clinical experiences in a healthcare setting that include patient-nurse aide communication and professionalism, measuring and recording vital signs, cardiopulmonary resuscitation, and proper documentation. Work-based learning in a healthcare facility is a required component of the course, and students must maintain the American Heart Association's Cardiopulmonary Resuscitation (CPR) and Emergency Cardiovascular Care (ECC) training during this course. This course requires students to meet the Virginia Board of Nursing required clock hours (80 lecture hours, 40 clinical hours, 20 skill hours) to be eligible to take the National Nurse Aide Assessment Program (NNAAP) exam.

Contextual instruction and student participation in co-curricular career and technical student organization (CTSO) activities will develop leadership, interpersonal, and career skills. High-quality work-based learning (HQWBL) will provide experiential learning opportunities related to students' career goals and/or interests, integrated with instruction, and performed in partnership with local businesses and organizations. **Students must take Nurse Aide the same semester as Nurse Aide Clinicals**.

Certified Nurse Aide Clinicals

8303 (1 credit)
Grade Level: 11, 12
Prerequisite: Enrolled concurrently with Nurse Aide

Offered as an occupational course in concurrence Nurse Aide, Patient Care Technician emphasizes the study of nursing occupations as related to the healthcare system. Students study normal growth and development, simple body structure and function, medical terminology, and are introduced to microbes and disease. Upon completion of the course, students will have mastered the skills needed to perform electrocardiograms (ECGs); execute basic medical, lab, and exam procedures; draw blood; and provide basic patient/client care. Students will be eligible to take a national certification exam to become certified phlebotomy technicians, certified ECG technicians, and certified patient care technicians. Contextual instruction and student participation in co-curricular career and technical student organization (CTSO) activities will develop leadership, interpersonal, and career skills. High-quality work-based learning (HQWBL) will provide experiential learning opportunities related to students' career goals and/or interests, integrated with instruction, and performed in partnership with local businesses and organizations. **Students must take Nurse Aide the same semester as Nurse Aide Clinicals.**

Health and Physical Education

Health and Physical Education 9

7300 (1 credit)
Grade Level: 9
Prerequisite: None

The 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 and 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 and 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 sports 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.

Personal Fitness Level 2

7682 (1 credit)
Grade Level: 9, 10, 11, and 12

Prerequisite: Successful completion of Level I

This course is a continuation of the previous level with an emphasis on increased intensity in weight training and interval agility training. This 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 expectations. 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 skills. 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 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.

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.

Recreational Sports I and II

7678 (1 credit)
Grade Level: 9, 10, 11 and 12
Prerequisite: None

In Recreational Sports, students will learn about the history and philosophy of recreational sports, as well as the skills and techniques needed to lead recreational sports activities. Students will explore traditional and non-traditional activities such as basketball, hockey, soccer, pickleball, badminton, ultimate frisbee, tchoukball, and more. In addition to sports, students will participate in fitness activities that are proven to improve overall health and well-being. Students will also have the opportunity to develop tournament plans in addition to planning and leading their own recreational sports activities.

Hospitality and Tourism

Culinary Arts

Culinary Arts is for students who are interested in, not just cooking, but also learning how to work in a restaurant, whether you're the chef, the manager or the server. You will learn about the management of a restaurant-how to design a menu, how to decide how much to charge for your menu items, marketing and advertising. You need to be willing to try all kinds of foods. You will be using math and reading as they relate to food preparation-real life math. No, you don't eat everyday in this class and no, you don't always get to eat what is prepared. You will be a master at cleaning by the end of the course. There is something to do every day in culinary arts.

Culinary Arts classes use a curriculum from the National Restaurant Association, ProStart, so you will be exposed to standards that are practiced in restaurants everyday. Restaurants are part of the hospitality industry-working with people. You need to enjoy people-working for them and working with them in your class. You need to be creative and a problem solver. In class you will be involved, not an observer.

Family, Career, Community Leaders of America (FCCLA) is the Career and Technical Student Organization (CTSO). In all Culinary Arts classes, as a part of class , you'll have the opportunity to participate in FCCLA activities. You'll be planning and participating in

service projects that benefit families. You may also have the opportunity for a leadership role as a CTSO club officer. Officers are involved in planning activities and conducting meetings.

Introduction to Culinary Arts

8250 (1 credit, 1 block)
Grade Level: 9, 10, 11, and 12 – Priority given to 9th and 10th grade students
Prerequisite: None

In this class, you will learn about different careers within culinary arts-not everyone will want to be a chef, and there are a wide variety of careers you may want to pursue. You will be preparing food on a large scale, at home you may fix dinner for your family, we may be making lunch for 65! You'll learn about the science behind cooking-why did my bread not rise? How does sugar and butter become caramel? You'll find out about current food trends such as "farm to table", food trucks, collagen in food, to name a few. We try cuisine from other countries.

Culinary Arts and Restaurant Management I

8275 (2 credits, 2 blocks)
Grade Level: 10 and 11

This class focuses on the actual operation of restaurants-how to prepare food safely, how to have a safe workplace, what equipment will I use in a restaurant, how do I get a job and keep my job, and cooking techniques. We make soup, quick breads, salads, sandwiches, and lots of cookies! You will learn how to be a server. Lots of what we do in class you get to practice when we operate the Cougar Den. The Cougar Den is a quick service restaurant within the Culinary Arts department. Each week you'll have a different job in the Cougar Den. It is fast paced and you have to be willing to work with your classmates. You may be delivering food, preparing food, managing the kitchen or operating the cash register.

Culinary Arts and Restaurant Management II

8276 (2 credits, 2 blocks)
Grade Level: 11 and 12
Prerequisite: Successful completion of Culinary Arts I
EOC Test: ServSafe Manager Certification

Students in this class are expected to have mastered the concepts of safe and sanitary food production and take on more public and challenging culinary experiences. Culinary Arts provides catering services for clients within the school system, Pulaski County and off site clients. Students are involved in all aspects of the catering projects: planning, food preparation, delivery/set up, and serving. At the conclusion of the course, students take the ServSafe Manager Exam, a nationally recognized certification. *There is a minimal class fee required to be in this class.*

Baking and Pastry Specialization

8279 36 weeks (I credit 1 block)
Grade Level : 11 and 12
Prerequisite: Successful completion of Culinary Arts II

The Culinary Arts Specialization course provides students with skills and knowledge to pursue careers in the food service industry. In a hands-on environment, students apply nutritional principles, plan menus, use business and mathematics skills, select and maintain food service equipment, and adhere to safety and sanitation standards. The curriculum continues to place a strong emphasis on science and mathematics knowledge and skills, critical thinking, practical problem-solving, and entrepreneurial opportunities within the field of culinary arts. We have a catering license and cater both school and outside events.

Cosmetology I

8522 (2 credits, 2 blocks)
Grade Level: 11
Prerequisite: None

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, and 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. Cosmetology students must satisfy a minimum of 840 hours of instruction in a two- or three-year coherent sequence of courses to be eligible to take the Board for Barbers and Cosmetology licensing examination. Students in this class may participate in SkillsUSA. SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce while preparing for careers in trade, technical and skilled service occupations. Upon successful completion of the program, students may earn the Virginia Board for Barbers and Cosmetology license. A course fee of $53.00 is required.

Cosmetology II

8523 (2 credits, 2 blocks)
Grade Level: 12, Fall Semester
Prerequisite: Successful completion of Cosmetology I

In this continuing 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, lightening, and coloring hair. In addition, students learn to care for skin, hands, and feet, developing experience in providing facials, manicures, pedicures, and nail enhancements. Students will be introduced to a business management unit with a focus on managing the salon. Cosmetology students must satisfy a minimum of 840 hours of instruction in a two- or three-year coherent sequence of courses to be eligible to take the Board for Barbers and Cosmetology licensing examination. Students in this class may participate in SkillsUSA. SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce while preparing for careers in trade, technical and skilled service occupations.Upon successful completion of the program, students may earn the Virginia Board for Barbers and Cosmetology license. A course fee of $53.00 is required.

Cosmetology III

8529 (2 credits, 2 blocks)
Grade Level: 12, Spring Semester
Prerequisite: Successful completion of Cosmetology II
EOC Test: Virginia Cosmetology State Board (Licensure)

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 chemical texture services and advanced hair coloring techniques. 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. An advanced 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. Cosmetology students must satisfy a minimum of 840 hours of instruction in a two- or three-year coherent sequence of courses to be eligible to take the Board for Barbers and Cosmetology licensing examination.Students in this class may participate in SkillsUSA. SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce while preparing for careers in trade, technical and skilled service occupations. Upon successful completion of the program, students may earn the Virginia Board for Barbers and Cosmetology license. A course fee of $53.00 is required.

Information Technology

Cyber Security Fundamentals

6302 (1 credit, 1 block)
Grade Level: 9, 10, 11, and 12

Cyber and network security degree programs will teach students to administer, manage, and troubleshoot hardware, software, or services for single, mixed and multi-user environments. Students will also utilize cyber security measures to protect data and manage personal conduct in relation to safeguarding data. Course content may include the following material: working with virtual machines, exploring cyber careers, establishing passwords, maintaining endpoint security, maintaining network security, implementing threat mitigation, exploring ethical and legal issues, applying legal procedures, identifying media, exploring media forensics and conducting mobile device forensics.

Cybersecurity Systems Technology

8628 (1 credit)
Grade Level: 10, 11, and 12
Prerequisite: Cyber security Fundamentals 6302

Students enter the world of computer technology and gain practical experience in assembling a computer system. Students will install, configure, and secure various operating systems. Students will troubleshoot computers and peripherals and use system tools and diagnostic software. They develop skills in computer networking and resource sharing. In addition, students explore the relationships between internal and external computer components. Upon successful completion of the course, students may qualify to take the CompTIA A+ certification exam.

Advanced Cybersecurity Systems Technology

8629 (2 credits, 2 blocks)
Grade Level: 11 and 12
Prerequisite: Cyber security Systems Technology 8628

This advanced course provides students with training in procedures for optimizing and troubleshooting concepts for computer systems, subsystems, and networks. Students explore the following: basic network design and connectivity, network documentation, network limitations and weaknesses, and network security, standards and protocols. Students will gain a basic understanding of emerging technologies including unified communications, mobile, cloud, and virtualization technologies. The course prepares students for postsecondary education and training and a successful career in information technology. Upon successful completion of the course, students may qualify to take CompTIA's A+ and Network+ certification exams.

Law, Public Safety, Corrections & Security

Criminal Justice I

8702 (1 credit, 1 block)
Grade Level: 10, 11, and 12
Prerequisite: None

Students are introduced to the four main components of the Criminal Justice System: Law Enforcement, Courts, Corrections and Private Security. Criminal Justice I is the first of a two year sequence. Students planning to work for police departments, court systems, jails or prisons are encouraged to take this course. Students will have the opportunity to participate in SkillsUSA.

Criminal Justice II

8703 (2 credits, 2 blocks)
Grade Level: 11 and 12
Prerequisite: Successful completion of Criminal Justice I

Students build on the information obtained from Criminal Justice I and begin to learn skills that law enforcement officers, correction officers, and courtroom employees possess. Students will learn these skills through simulated, controlled experiences. Students will study Virginia Law and Federal Law, and understand how it applies to real-life situations. Students will have the opportunity to participate in SkillsUSA.

Manufacturing

Manufacturing I

8425 (1 credit) (1 block)
Grade Level: 9, 10, 11, and 12

Students will build on their experience in previous classes to design and build a prototype that would solve a problem faced by our community. Using a well-equipped production shop, students will be able to spend time building and prototyping while learning the principles and history of manufacturing. Students will have the opportunity to participate in Technology Students of America in class.

Manufacturing II

8427 (1 credit) (1 block)
Grade Level: 10, 11, and 12
Prerequisite: Maker Lab II
EOC Test: Industry credential test or licensure test required upon completion of this course.

Students will build on their experience in previous classes to design and build a prototype that would solve a problem faced by our community. Using a well-equipped production shop, students will be able to spend time building and prototyping while learning the principles and history of advanced and computer based manufacturing.Each class will demonstrate the results to the community at the end of the semester in a Capstone Project Presentation. Students will have the opportunity to participate in Technology Students of America in class..

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. *There is a minimal class fee required to be in this class.*

Welding II Dual Enrollment

8673 (2 credits, 2 blocks) (NRCC class WEL 100, 3 college credits)
Grade Level: 11 and 12
Prerequisite: Welding I
EOC Test: SkillsUSA, Welding Examination

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. Students will have the opportunity to obtain OSHA 10 certifications.
There is a minimal class fee required to be in this class.

Welding III Dual Enrollment

8674 (2 credits, 2 blocks) (NRCC class WEL 123, 4 college credits)
Grade Level: 11 and 12
Prerequisite: Welding II Dual Enrollment
EOC Test: AWS, Certified Welder

Students will work toward receiving American Welding Society (AWS) welding qualifications to become an entry level welder. Students will learn 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. Students will have the opportunity to obtain OSHA 10 certifications.
There is a minimal class fee required to be in this class.

Marketing Sales & Service

Marketing

8120 (1 credit, 1 block)
Grade Level: 9, 10, 11 and 12
Prerequisite: None

Students examine activities for success in marketing yourself for employment and ongoing education. Students will learn how products are developed, branded, and sold to businesses and consumers. Students investigate industry trends and gain hands-on experience in the marketing of goods, services, and ideas. Topics will include professionalism in the workplace, product planning and positioning, promotion, pricing, selling, economic issues, and the impact of technology on the marketplace. Computer lab applications and DECA activities enhance the course. DECA, the co-curricular student organization, offers opportunities in leadership, community service, and competitive events.

Advanced Marketing (Strategic Marketing)

8130 (1 credit, 1 block
Grade Level: 10, 11 and 12
Prerequisite: Marketing 8120

Students build on knowledge gained in the Marketing Course. Students participate in supervisory and management activities focusing on business topics such as the marketing mix, purchasing, financing, human resources, global marketing, pricing, and emerging technologies. Students will prepare for advancement in marketing careers and postsecondary education. Computer technology applications and DECA activities enhance the course. DECA, the co-curricular student organization, offers opportunities in leadership, community service, and competitive events.

Fashion Marketing

8140 (1 credit, 1 block)
Grade Level: 10, 11, and 12
Prerequisite: Recommended Marketing 8120

This course leads students into the exciting and ever-changing world of fashion. Students gain knowledge of marketing as it relates to the fashion industry. From brick-and-mortar to online retail establishments, students will explore aspects of fashion marketing such as trends, technology, the buying process, visual merchandising, the nature and history of fashion and fashion designers, and the global impact of the fashion industry on the economy. Computer technology applications and DECA activities enhance the course. DECA, the co-curricular student organization, offers opportunities in leadership, community service, and competitive events

Advanced Fashion Marketing

8145 (1 credit, 1 block)
Grade Level: 11, and 12
Prerequisite: Fashion Marketing

This advanced-level course prepares students for a career in the global fashion industry. Students gain deeper knowledge of the field and apply skills developed in the Fashion Marketing Course. Students explore sustainability, social responsibility, entrepreneurship, technology applications, buying, portfolio development, and careers. Computer technology applications and DECA activities enhance the course. DECA, the co-curricular student organization, offers opportunities in leadership, community service, and competitive events.

Travel and Tourism Marketing

(1 credit, 1 block)
Grade Level: 10, 11, and 12
Prerequisite: Recommended Marketing

This course examines the components of the travel and tourism industry, including attractions, lodging, transportation, and food and beverage. Other topics include the history, political, social, and cultural effects of travel and tourism on local, state, and global environments. Students develop competencies in the areas of communication, customer service, marketing, industry technology, economics, and management functions, and are provided with opportunities for hands-on, real-world applications. Applying academic skills is also part of this course. The course also supports career development skills and explores career options. Computer technology applications and DECA activities enhance the course. DECA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events. High-quality work-based learning (HQWBL) will provide experiential learning opportunities related to students' career goals and/or interests, integrated with instruction, and performed in partnership with local businesses and organizations.

Mathematics

Algebra I Part I

3131 (1 elective credit)
Grade Level: 9 and 10
Prerequisite: None

Algebra I Part I is the first semester of a two-semester sequence. This course presents using tables, graphs, patterns, and mathematical symbols to interpret algebraic expressions, generalize arithmetic concepts, develop proportional reasoning, represent inequalities, and analyze behaviors of functions. These standards include using a transformational approach to graphing functions and writing equations, and finding solutions to linear and quadratic equations. Graphing utilities (calculators, computers, and other technology tools) will be used to assist in teaching and learning. All rising 9th grade students who have not completed Algebra 1 will be enrolled in this course unless the student meets the qualifications for the Algebra 1 semester- long course.

Algebra I Part II

3132 (1 credit)
Grade Level: 9, 10, and 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 that were introduced in Algebra I Part I. A student who successfully completes Algebra I Part II may continue to Algebra Functions and Data Analysis, Geometry, or Geometry Honors (with a B average and teacher recommendation).

Algebra I

3130 (1 credit)
Grade Level: 9, 10, 11 and 12
Prerequisite: Pre-Algebra experience
EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

This semester-long course presents the same content as the year-long Algebra I part I and II sequence. Therefore, the pace is accelerated. This course covers using tables, graphs, patterns, and mathematical symbols to interpret algebraic expressions, generalize arithmetic concepts, develop proportional reasoning, represent inequalities, and analyze behaviors of functions. These standards include using a transformational approach to graphing functions and writing equations, and determining solutions to linear and quadratic equations. A student who successfully completes Algebra I may continue to Algebra Functions and Data Analysis, Geometry, or Geometry Honors (with a B average and teacher recommendation).

Algebra I Honors

3129 (1 credit)
Grade Level: 9, 10, 11 and 12
Prerequisite: B or higher in Math 7 and Math 8 and/or teacher recommendation
EOC Test: Standards of Accreditation require an End of Course Test upon completion of this course.

This course is designed for students who have successfully completed the standards for Math 7 and Math 8 with a B average or higher. The full Algebra 1 curriculum is completed in one semester. This course covers using tables, graphs, patterns, and mathematical symbols to interpret algebraic expressions, generalize arithmetic concepts, develop proportional reasoning, represent inequalities, and analyze behaviors of functions. These standards include using a transformational approach to graphing functions and writing equations, and determining solutions to linear and quadratic equations. There is an increased level of rigor placed on select topics. A student who successfully completes Algebra I Honors may continue to Algebra Functions and Data Analysis, Geometry, or Geometry Honors (with a B average and teacher recommendation).

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. This course does not meet standards for the Advanced Studies Diploma.

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.

A thorough treatment of advanced algebraic concepts will be provided through the study of functions, equations, inequalities, systems of equations, polynomials, rational and radical equations, complex numbers, and sequences and series. These standards include a transformational approach to graphing functions. Graphing utilities (calculators, computers, and other technology tools) will be used to assist in teaching and learning. The course is necessary for those students who wish to continue in high school mathematics and to establish a strong background in mathematics for college. This course meets standards for the Advanced Studies Diploma. A student who successfully completes Algebra II (with a recommended B average) may continue to Advanced Algebra/Trigonometry or Probability and Statistics.Alternatively, 11th and 12 grade students may advance to D.E. Pre-Calculus I, D.E. Quantitative Reasoning, or D.E Statistical Reasoning.

Algebra II Honors

3137 (1 credit)
Grade Level: 9, 10, 11 and 12
Prerequisite: Algebra I Honors 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.

This course presents the Algebra II standards stated in the Algebra II course description and emphasizes written and oral communication of mathematical solutions. Completion and presentation of a Capstone Project is required. This course meets standards for the Advanced Studies Diploma. A student who successfully completes Algebra II Honors (with a recommended B average) may continue to Advanced Algebra/Trigonometry.Alternatively, 11th and 12 grade students may advance to D.E. Pre-Calculus I, D.E. Quantitative Reasoning, or D.E Statistical Reasoning

Advanced Algebra/Trigonometry

3163 (1 credit)
Grade Level: 10, 11, and 12
Prerequisite: Geometry, Algebra II; B average in prior math courses and teacher recommendation

This course presents Conics (geometric figures on the coordinate plane) and Trigonometry. The Trigonometry topics include right triangle trig, laws of sines and cosines, circular trig, graphing trig functions, proving trig identities, and solving trig equations. The focus on hand-written solutions will strengthen a student's readiness for Dual Pre-Calculus (MTH 161 and 162) or other college math courses. The course meets the standards for the Advanced Studies Diploma.

Pre-Calculus Part I dual enrollment

3167 (1 high school credit) (NRCC college credit in MTH 161, 3 college credits)
Grade Level: 11 and 12
Prerequisites: A NRCC application and parent signature on file at NRCC and minimum 3.0 GPA

This course presents topics in power, polynomial, rational, exponential, and logarithmic functions. Additional topics include solving systems of linear equations with Gauss-Jordan elimination and solving non-linear inequalities. MTH 161 is the first half of MTH 167 (credit cannot be received for both). Either MTH 167 or both MTH 161 and 162 are prerequisites for MTH 263 Calculus I.

Pre-Calculus Part II dual enrollment

3168 (1 high school credit) (NRCC college credit in MTH 162, 3 college credits)
Grade Level: 11 and 12
Prerequisites: MTH 161 with a C or better, an NRCC application and parent signature on file at NRCC and minimum 3.0 GPA

This course presents topics in conics, right triangles, general triangles, Law of Sines, Law of Cosines, Angle Identities, Proving Trig identities, Solving Trig equations, polar coordinates, and vectors. MTH 162 is the second half of MTH 167 (credit cannot be received for both). Either MTH 167 or both MTH 161 and 162 are prerequisites for MTH 263 Calculus I.

Calculus I (Dual Enrollment)

3175 (1 high school credit) (NRCC class MTH 263, 4 college credits)
Grade Level: 11 and 12
Prerequisite: A grade of C in Pre-Calculus Dual Enrollment

This course is designed to fulfill a college mathematics requirement for science, engineering, computer science, and mathematics degree programs. This course presents limits, derivatives, differentiation of functions, applications of derivatives, antiderivatives, Riemann sums, integration, and applications of integration. The course follows the New River Community College MTH 263 course guide.

Geometry

3143 (1 credit)
Grade Level: 9, 10, 11, and 12
Prerequisite: Algebra I or Algebra I Part II, with a grade of C or higher, OR an Algebra, Functions and Data Analysis Credit.
EOC Test: Only students that need a high school Math verified credit take the Geometry SOL.

This course is designed for students who have successfully completed the standards for Algebra I. The course includes an emphasis on developing reasoning skills through the exploration of geometric and trigonometric relationships including properties of geometric figures. This set of standards includes emphasis on two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. A variety of applications and some general problem-solving techniques, including algebraic skills, are used to implement these standards. A student who successfully completes Geometry may progress to Algebra II or AFDA, depending on their diploma path.

Geometry Honors

3145 (1 credit)
Grade Level: 9, 10, 11, and 12
Prerequisite: Algebra I or Algebra I Part II, with a grade of B or higher, and/or a teacher recommendation.
EOC Test: Only students that need a high school Math verified credit take the Geometry SOL.

This course is designed for students who have successfully completed the standards for Algebra I. The course includes an emphasis on developing reasoning skills through the exploration of geometric and trigonometric relationships including properties of geometric figures. This set of standards includes emphasis on two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems, including constructions. Deductive reasoning and logic are used in direct proofs. A variety of applications and some general problem-solving techniques, including algebraic skills, should be used to implement these standards. Completion and presentation of a Capstone Project is required. A student who successfully completes Geometry Honors may progress to Algebra II (Advanced Diploma path) or AFDA (Standard Diploma path).

Probability/Statistics

3190 (1 credit)
Grade Level: 11 and 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. This course meets standards for the Advanced Studies Diploma.

Quantitative Reasoning Dual Enrollment

3193 (1 high school credit) (NRCC class MTH 154, 3 college credits)
Grade Level: 11 and 12
Prerequisites: Algebra II an NRCC application and parent signature on file at NRCC and minimum 3.0 GPA

This course presents topics in proportional reasoning, modeling, financial literacy, and validity studies (logic and set theory). It focuses on the process of taking a real-world situation, identifying the mathematical foundation needed to address the problem, and solving the problem by applying the appropriate mathematical principle.

Statistical Reasoning Dual Enrollment

3192 (1 high school credit) (NRCC class MTH 155, 3 college credits)

Grade Level: 12
Prerequisites: Algebra II an NRCC application and parent signature on file at NRCC and minimum 3.0 GPA

This course presents elementary statistical methods and concepts including visual data presentation, descriptive statistics, probability, estimation, hypothesis testing, correlation and linear regression. Emphasis is placed on the development of statistical thinking, simulation, and the use of statistical software. The course follows the New River Community College MTH 155 course guide.

Fundamentals of Reasoning Dual Enrollment

xxxx (1 high school credit) (NRCC class MTH 130, 3 college credits)
Grade Level: 11, 12
Prerequisites: Algebra I, an NRCC application and parent signature on file at NRCC and minimum 2.0 GPA

This course presents elementary concepts of algebra, linear graphing, financial literacy, descriptive statistics, measurement, and geometry. The course follows the New River Community College MTH 130 course guide. The course is intended to fulfill the math requirement for the CTE Governor's School programs. Juniors or seniors who plan to pursue a skilled trades certification at NRCC are invited to take this course to fulfill their math requirement while in high school. Electricity majors require additional math. **MTH 130 does not transfer to a 4-year college.**

Service Learning – Math Peer Tutoring

2502 (1 credit) (elective credit)
Grade Level: 11 and 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:

- Teaching 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

Science

Environmental Science

4271 (1 credit)
Grade Level: 9, 10, 11, and 12
Prerequisite: None
Environmental Science integrates the study of many components of our environment, including the human impact on our planet. These outcomes focus on scientific inquiry, the physical world, the living environment, resource conservation, humans' impact on the environment, and legal and civic responsibility.

Biology

4300 (1 credit)
Grade Level: 9, 10 and 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: 9, 10 and 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 the 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.

Biology I Dual Enrollment

4315 (1 high school credit) (NRCC class BIO 101, lecture and lab, 4 college credits)
Grade Level: 11 and 12
Prerequisite: A minimum grade of C in Chemistry, an NRCC application and parent signature on file at NRCC and a 3.0 minimum GPA.

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 junior or 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) (NRCC class BIO 102, lecture and lab, 4 college credits)
Grade Level: 11 and 12
Prerequisite: A minimum grade of C in Dual Enrollment Biology I

The 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 designated to allow the student who is academically advanced to enroll in a college course during his or her junior or 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, 10, 11 and 12
Prerequisite: None
EOC Test: Standard of Accreditation requires 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.

Oceanography

4250 (1 credit)
Grade Level: 11 and 12
Prerequisite: Environmental Science

This course is a study of the marine environment describing principles of physical, chemical, biological and geological oceanography. topics include the origin of oceans; the composition and history of seawater; oceanic currents, tides, waves and beaches; the sea floor; plant and animal life in the sea; oceanic resources and food; and marine pollution.

Physics

4510 (1 credit)
Grade Level: 11 and 12
Prerequisite: Trigonometry or Pre-Calculus

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 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.

Astronomy

4260 (1 credit)
Grade Level: 11 and 12
Prerequisite: Biology

The goal of this course is to provide students with an introduction to the concepts of modern astronomy, the origin and history of the Universe, the formation of the Earth and the solar system. The course gives a description of astronomical phenomena using the laws of physics. The course touches on topics including planets, stars, the Milky Way and other galaxies, black holes and the origin of the universe.

Science Electives

Forensic Science

4266 (1 credit)
Grade Level: 11 and 12

Forensic Science is the application of science (chemistry, physics, and biology) to the criminal and civil laws that are enforced by police agencies in a criminal justice system. It includes the investigation of fingerprinting, fiber analysis, ballistics, arson, trace evidence analysis, poisons, drugs, blood spatters, and blood samples. Students are taught the proper collection, preservation, and laboratory analysis of various samples.

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 Advanced Placement

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 a 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 more information regarding Advanced Placement courses, see page 2 in this Course Catalog.

U.S. History

2360 (1 credit)
Grade Level: 11
Prerequisite: World History to 1500/World Geography
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.

U.S. History Dual Enrollment

2363 1 high school credit) (NRCC classes HIS 121 & HIS 122, 6 college credits)
Grade Level: 11
Prerequisite: World History 1 and World History II or AP Euro, An NRCC application and parent signature on file with a minimum 3.0 GPA 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 or 10
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 able 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.

World History to 1500/World Geography Honors

2343 (1 credit)
Grade Level: 9 or 10
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 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.

European History Advanced Placement

2399 (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. 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 techniques for mastery of document-based questions. This course is designed to prepare the student for a comprehensive year-end Advanced Placement examination.

Social Studies Electives

African American History

2960 (1 credit)
Grade Level: 9,10, 11 and 12
Prerequisite: None

Students will examine the role African Americans have played in American history. The activities and assignments in the course promote cultural awareness and critical thinking through the lenses of power, politics, economics, and geography. Students will trace the trials, tribulations, and triumphs of race relations in the United States.

Introduction to Philosophy

2850 (1 credit)
Grade Level: 10, 11 and 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: 10, 11 and 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, sexual identity, gender identity, 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.

Psychology Dual Enrollment

2911 (1 credit) (NRCC classes PSY 200 & PSY 230, 6 college credits)
Grade Level: 11 and 12
Prerequisite: An NRCC application and parent signature on file with a minimum 3.0 GPA.

Surveys the basic concepts of psychology. Covers the scientific study of behavior and mental processes, research methods, biological bases of behavior, sensation and perception, developmental psychology, learning, memory, thinking, intelligence, personality, social psychology, and psychological disorders and treatment. The assignments in the course require college-level reading fluency and coherent communication through written reports. Traces development in context from pre-conception to death, including the physical, cognitive, and psychosocial domains. Examines methods of scientific inquiry as they apply to lifespan development. Addresses the interrelatedness of developmental domains, as well as the interdependent influences of environment and biology. *This class will teach college-level topics included in psychology. This includes the topics of sexuality, sexual-identity, sexual-orientation, and gender-identity.*

U.S. Wars and Conflicts

2970 (1 high school credit)
Grade Level: 9, 10, 11 and 12
Prerequisite: None

From the frontier skirmishes of the 17th century to the battlefields of the 21st, this course examines the pivotal role of armed conflict in shaping the American identity. Students will move beyond simple dates and names to analyze the political, social, and economic drivers behind each engagement. We will explore how war has expanded (and at times restricted) civil liberties, transformed the American economy, and redefined the United States' role on the global stage.

World Religions and Global Literacies

2972 (1 high school credit)
Grade Level: 10, 11 and 12
Prerequisite: None

This course provides an academic survey of the world's major religious traditions and their impact on history, culture, and contemporary global affairs. Using a comparative and descriptive approach, students will explore the origins, core texts, primary practices, and historical developments of diverse faith traditions. The primary goal is to foster "religious literacy"—the ability to understand the complex role religion plays in human social, political, and economic life.

Introduction to Sociology

2970 (1 high school credit)
Grade Level: 9, 10, 11 and 12
Prerequisite: None

This course offers a comprehensive introduction to the scientific study of human society and social behavior. Following the National Standards for High School Sociology, students will examine how social structures, institutions, and cultural forces shape individual lives and group interactions. The curriculum emphasizes critical thinking, data literacy, and the application of the scientific method to understand the complexities of modern social life.

History of Western Civilization Dual Enrollment

2952 (1 high school credit) (NRCC classes HIS 101 & HIS 102, 6 college credits)
Grade Level: 11 and 12
Prerequisite: An NRCC application and parent signature on file with a minimum 3.0 GPA.

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 and 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 100 clock hours to receive a credit.

The purpose of the course is 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.

Education for Employment I AND II

9046
Grade Level: 9, 10, 11, and 12
Prerequisite: N/A

ln the course, Education for Employment, the student will be a part of a multi-tier learning experience. The course is available for all grades to work through various employment, communication, social, and independent living skills. The goal for all students is to provide technical skills: developing employability, adapting to employment, customer service, and life management skills. Students will have opportunities to learn their personal preferences and interests, making post secondary goals. Building self-awareness and self-advocacy skills, which are essential for adulthood and employment as they transition from school. This is a high quality work-based learning (HQWBL) environment and a Career and Technical Education program through an applied employment education format.

STEM

Maker Lab

8433 (1 credit)
Grade Level: 9, 10, 11, and 12
Prerequisite: None

Students will complete safety units for hand tools, power tools, and equipment, then using a well-equipped production shop design and create fabrications in wood, sheet metal, 3d printing and CNC routing. Each unit will allow students to take home finished products. Students will have the opportunity to participate in Technology Students of America in class.

Engineering I

8450 (1 credit)
Grade Level: 9, 10, 11, and 12

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, 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.

Engineering II

8451 (1 credit)
Grade Level: 10, 11, and 12
Prerequisite: Engineering 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.

Robotics I

8421 (1 credit)
Grade Level: 10, 11 and 12
Prerequisite: None

Students engage in the study of computers and microprocessors and their applications to manufacturing, transportation, and communication systems. Topics include computer equipment and operating systems, robotics, programming, control systems, and social/cultural impact of these technologies. Problem-solving activities challenge students to design, program, and interface devices with computer systems. Learning activities include robotics, computer-aided design, computer-aided manufacturing and design, and control of electromechanical devices. Students will have the opportunity to participate in Technology Students of America in class.

Transportation, Distribution & Logistics

Automotive Technology I

8506 (2 credits, 2 blocks)
Grade Level: 10 and 11 (priority given to 10)

In this first course of the three-course program, students learn all aspects of repair, safety, and customer service by concentrating on two or 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. *There is minimal class fee required to be in this class.*

Automotive Technology II

8507 (2 credits, 2 blocks)
Grade Level: 11 and 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. *There is minimal class fee required to be in this class.*

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. *There is minimal class fee required to be in this class.*

Collision Repair Technology I

8676 (1 credit)
Grade Level: 10, 11 (priority given to 10)

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 and 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. *There is minimal class fee required to be in this class.*

Collision Repair 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 vehicle) 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. *There is minimal class fee required to be in this class.*

Collision Repair Technology III

8678 (2 credits, 2 blocks)
Grade Level: 11 and 12
Prerequisite: Automotive Body Technology II
EOC Test: NATEF/ASE (Non-structural, Refinishing)

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 an ASE Industry Credential exam. *There is minimal class fee required to be in this class.*

Summer School

Academic Course: 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 two to 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. There is no fee for the academic course recovery summer program. Questions about summer school should be directed to the School Counseling Office..

Summer PE Program/Camp Cougar: 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 Camp Cougar. . Questions about Camp Cougar should be directed to the School Counseling Office.

Camp Cougar 9

7300 Health & PE 9 (1 credit)
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 white water 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

7400 Health & PE (1 credit)
Grade Level: 9 or 10
Prerequisite: PE 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 PE 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 requirement for 10th grade physical education and driver's education. This program is designed for Pulaski County High School students entering the 10th grade.