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# **Course Catalog**

## **2011-2012**

**Pulaski County High School**

**540-643-0747**

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

# GENERAL INSTRUCTIONS

## GENERAL INSTRUCTIONS FOR REGISTRATION

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

- Students should select the courses they wish to take including appropriate required courses.
- All students must be scheduled for a minimum of eight (8) credits.
- Students are urged to read the course descriptions carefully and to note prerequisites before making selections.
- Students should consult with guidance counselors and teachers for assistance in course selections for careers, college entrance and graduation requirements.
- Students should go over their course selections with their parents and discuss their educational and career plans.

## **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.

### **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.

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, and
- class size.

### **Credit for Summer Activities**

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

### **Early Release Policy**

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

### **Grade Classification**

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

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

**NOTE:** Transferable credits earned at a middle school are added to the first high school semester (including all summer school classes).

**NOTE:** Summer school credits are added to the previous high school semester.

# GENERAL INSTRUCTIONS

## **Prerequisites**

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

## **Rank and Average**

Rank in class is based on all subjects including withdrawals (W/F). A system of ranking establishes the class standing of all 12th grade students. A point value is assigned to 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, academic dual enrollment) have the following values: A = 5, B = 4, C = 3, D = 2, and F = 0. The final GPA will include both semesters of the senior year. The rank and average is recorded on the scholastic record and become a part of the student’s personal file.

## **Tuition**

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

## **VHSL Athletic Eligibility**

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

## **Waiver Policy**

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

## **Withdrawal from Course Policy**

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

## **PROGRAMS**

### **Achievement Philosophy**

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

### **Advanced Placement Program**

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

- AP English - Literature and Composition
- AP English - Language and Composition
- AP Art History
- AP Studio Art
- AP Calculus
- AP/Dual Enrollment Environmental Science
- AP U.S. Government and Politics
- AP U.S. History
- AP Psychology

These special college-level courses are challenging and take more time, require more work, and give greater depth than other high school courses. Each college decides what AP examination grades it will accept for credit and/or advanced placement. The benefits of advanced placement and credit are numerous and include taking advanced courses in the AP subject, exploring other subjects of interest, joining honors and other special programs, and saving tuition fees.

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

# GENERAL INSTRUCTIONS

AP courses are designed to provide a challenging and rigorous curriculum that will help prepare students to be successful on the national AP exam. Generally students scoring a 4 or better on the AP Exam are eligible to receive college credit. However, colleges and universities differ on both the scores they require for credit, and also how the credit is awarded. Students/parents should contact their institution of choice to verify both the score requirements and the specifics concerning awarding credit.

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. Additionally, only students who take the AP Exam will receive weighted credit for the class.

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

## **Virtual Virginia**

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

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

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

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

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

The following is a tentative list of course offerings for the 2011-2012 school year:

### **AP Courses**

Art History  
Biology  
Calculus AB  
Calculus BC

Chemistry  
Chinese Language and Culture  
Computer Science A  
English Language and Composition  
English Literature and Composition

# GENERAL INSTRUCTIONS

Environmental Science  
European History  
French Language  
Government and Politics: Comparative  
Government and Politics: U. S.  
Human Geography  
Latin: Vergil  
Macroeconomics  
Microeconomics  
Physics B  
Psychology  
Spanish Language  
Statistics  
U. S. History  
World History

## **NON-AP Courses**

Arabic I  
Chemistry (Honors)  
Chinese I  
Chinese II  
Chinese III  
Chinese IV  
Creative Writing  
Earth Science I  
Economics  
French I  
French II

Latin I  
Latin II  
Latin III  
Latin IV  
Physics (Honors)  
Pre-Calculus/Mathematical Analysis  
Psychology  
Spanish I  
Spanish II  
Spanish IV  
Survey of World Language and Culture  
World History and Geography I  
World Mythology

## **Dual Enrollment Program**

Whenever possible, students shall be encouraged and provided opportunities to take college courses simultaneously for high school graduation and degree credit, under the following conditions:

1. Prior written approval of the high school principal for cross-registration must be obtained (this requires that the student is taking a class that approximates courses approved at the high school or is a higher level of a course offered at the high school);
2. The college must accept the student for admission to the course(s); and
3. The course(s) must be given by the college for degree credits; hence, no remedial courses will be accepted. New River Community College and Pulaski County High School offer a dual enrollment program taught at the high school. These courses follow the same syllabi and use the same texts as New River Community College. Admission procedures follow requirements of the high school and the community college. Upon successful completion of the course, one weighted high school credit will be awarded for academic courses/one high school credit for CTE courses and a corresponding number of semester hours of college credit will be awarded by New River Community College. Currently, students are not responsible for paying their own tuition and book fees; however, this is subject to change. The following dual enrolled classes are offered at the high school:

# GENERAL INSTRUCTIONS

## DUAL ENROLLMENT COURSES

(Minimum numbers required by NRCC for enrollment)

### Pulaski County High School

8130, Advanced Marketing  
4315, Biology I  
4316, Biology II  
8517, Building Trades III  
8604, Carpentry/Cabinetmaking III  
8552, Computer Aided Drafting & Design III (CADD)  
8286, Early Childhood Education II  
8538, Electricity Technology III  
1120, English 12 Dual Enrollment  
4272, Environmental Science, AP/ Dual Enrollment  
8360, Health Assistant  
2443, U.S. Government Dual Enrollment

### New River Community College

MKT 100, Marketing  
BIO 101, Biology I  
BIO 102, Biology II  
BLD 110, Intro to Construction  
BLD 110, Intro to Construction  
DRE 114, Computer Aided Drafting & Design  
CHD 120, Introduction to Early Childhood  
BLD 110, Intro to Construction  
ENG 111 and ENG 112, English  
ENV 101, Intro to Environmental Technology I  
NUR 27, Nursing Assistant  
PLS 135 and PLS 136, Political Science

## Honors Program

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

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

The Southwest Virginia Governor's School opened in Pulaski County in the fall of 1989. Students report to the Governor's School in the morning for science, mathematics, and research courses and return to their home high schools for afternoon classes. Students have the opportunity to take dual enrollment classes in math and science to earn college credit through New River Community College. The Governor's School offers a research-based program; field trips to area businesses and industries to observe science and technology in action; interaction with scientists through the lecture series; and an internship program that allows students to become a part of local business or industry. In addition, students also have the opportunity to work in research-grade technology labs, to pursue independent research, and to participate in on-going research projects. Students make application to the program during the spring of their sophomore year. Selection is based on standardized test scores (PSAT), GPA, previous advanced courses taken and teacher recommendations.

To be considered for admission to SWVGS, PCHS students must have completed Earth Science, Biology, Algebra I, Geometry, and Algebra II. Interested students should take the PSAT test in October of their sophomore year. Other tools for selection are SOL scores on math and science tests. Also, the students' grades in their ninth and tenth grade science and math classes are critical. To review Pulaski County Schools selection criteria for the Governor's School, please see this Web site: <http://www.pcva.us/schools/governorsschool>.

## 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 and Section 504 of the Rehabilitation Act. Referral, testing, and placement services are facilitated by the Exceptional Student Services of Pulaski County Schools.

# GENERAL INSTRUCTIONS

## Career Pathways

Pulaski County Schools is a member of New River Valley Career Pathways Consortium and partners with secondary and post-secondary educators, business, 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 9<sup>th</sup> grade and can lead to an associate, baccalaureate or further degree, an industry-recognized certificate, and/or licensure.

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

## The 16 Career Clusters

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Agriculture, Food, and Natural Resources</li> <li>• Architecture and Construction</li> <li>• Arts, Audio/Visual Technology, and Communications</li> <li>• Business, Management, and Administration</li> <li>• Education and Training</li> <li>• Finance</li> <li>• Government and Public Administration</li> <li>• Health Science</li> <li>• Hospitality and Tourism</li> </ul> | <ul style="list-style-type: none"> <li>• Human Services</li> <li>• Information Technology</li> <li>• Law, Public Safety, Corrections, and Security</li> <li>• Manufacturing</li> <li>• Marketing, Sales, and Service</li> <li>• Science, Technology, Engineering, and Mathematics</li> <li>• Transportation, Distribution, and Logistics</li> </ul> |
|--|---|

## Common Core of Knowledge and Skills

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

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Academic foundations</li> <li>• Communication</li> <li>• Problem solving and critical thinking</li> <li>• Information technology applications</li> <li>• Systems</li> </ul> | <ul style="list-style-type: none"> <li>• Safety, health, and environment</li> <li>• Leadership and teamwork</li> <li>• Ethics and legal responsibilities</li> <li>• Employability and career development</li> <li>• Technical skills</li> </ul> |
|--|---|

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

| <b>Programs</b>   | <b>Clusters</b>                                  | <b>Majors</b>                               |
|---|--|---|
| Automotive Collision Technology, Automotive Service                 | Transportation, Distributions and Logistics      | Automotive Collision, Automotive/Technology |
| Computer Information Systems  | Information Technology                           | Computer Technology                         |
| Cosmetology   | Human Services                                   | Cosmetology                                 |
| Culinary Arts   | Hospitality and Tourism                          | Culinary Arts                               |
| Construction Technology, Building Trades, and Computer Aided Design | Architecture and Construction                    | Architecture, Construction                  |
| Early Childhood Education   | Education and Training                           | Early Childhood Education                   |
| Electricity Technology  | Science, Technology, Engineering and Mathematics | Electricity, Electronics                    |
| Fashion, Communication Technology, TV/Video Productions             | Arts, Audio-Video Technology, and Communication  | Graphic Communications                      |
| Health and Medical Science Technology                               | Health Services                                  | Health/Medical Technology                   |
| Manufacturing Technology, Materials and Processes Technology        | Manufacturing                                    | Machine Technology                          |
| Management, Business Law, and Web Design                            | Business, Management and Administration          | Management                                  |
| Marketing   | Marketing, Sales and Services                    | Marketing                                   |
| Plant, Animal, and Natural Resources                                | Agriculture, Food, and Natural Resources         | Agriculture                                 |

# GENERAL INSTRUCTIONS

## GRADUATION REQUIREMENTS

### GRADUATING CLASSES OF 2012, 2013, 2014

#### Standard Diploma (6 verified credits)

| <u>Courses</u>                                | <u>Credits</u> |  |
|---|----------------|--|
| English.....                                  | 4              | <sup>1</sup> Must be at or above the level of Algebra I. Shall include at least two course selections from among Algebra I, Geometry, Algebra II or courses above the level of Algebra and Geometry. An approved career and technical education completer course may be substituted for the local requirement of a fourth math credit. |
| Math <sup>1</sup> .....                       | 4              |  |
| Science <sup>2</sup> .....                    | 3              |  |
| Social Studies <sup>3</sup> .....             | 4              | <sup>2</sup> Shall include course selections from at least two different disciplines: Earth Science, Biology, Chemistry, or Physics.   |
| Health & PE.....                              | 2              |  |
| Fine Arts or Career & Technical Education ... | 3              | <sup>3</sup> Shall include U.S. and Virginia History, U.S. and Virginia Government, and two World History/Geography courses.   |
| Electives <sup>4</sup> .....                  | <u>6</u>       | <sup>4</sup> Courses to satisfy this requirement shall include at least two sequential electives as required by the Standards of Quality. (This is a requirement for the Standard Diploma.)  |
| <b>Total.....</b>                             | <b>26</b>      |  |

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

- Students who graduate with an average grade of 3.6 or better will receive a Board of Education Seal on the diploma.

#### Advanced Studies Diploma (9 verified credits)

| <u>Courses</u>                                | <u>Credits</u> |  |
|---|----------------|--|
| English.....                                  | 4              | <sup>1</sup> Must be at or above the level of Algebra I. Shall include at least two course selections from among Algebra I, Geometry, Algebra II or courses above the level of Algebra and Geometry. |
| Math <sup>1</sup> .....                       | 4              |  |
| Science <sup>2</sup> .....                    | 4              | <sup>2</sup> Shall include course selections from at least two different disciplines: Earth Science, Biology, Chemistry, or Physics.   |
| Social Studies <sup>3</sup> .....             | 4              |  |
| Health & PE.....                              | 2              | <sup>3</sup> Shall include U.S. and Virginia History, U.S. and Virginia Government, and two World History/Geography courses.   |
| Fine Arts or Career & Technical Education ... | 2              | <sup>4</sup> Shall include three years of one language or two years of two languages.  |
| Foreign Language <sup>4</sup> .....           | 3              |  |
| Electives.....                                | <u>5</u>       |  |
| <b>Total.....</b>                             | <b>28</b>      |  |

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

- Students who graduate with an average grade of 3.6 or better will receive a Board of Education Seal on the diploma.
- Students who graduate with a grade point average of 2.75 or better and complete at least one AP or Dual Enrollment course will receive a Governor's Seal on the diploma.

# GENERAL INSTRUCTIONS

## GRADUATION REQUIREMENTS

### GRADUATING CLASS OF 2015 AND BEYOND

**Beginning with the incoming ninth-grade class (Graduating Class of 2015 and beyond), students shall earn the required standard and verified units of credits as described in VAC 20-131-50.**

#### **Standard Diploma (6 verified credits)**

| <u>Courses</u>   | <u>Credits</u> |   |
|--|----------------|---|
| English.....   | 4              | <sup>1</sup> Must be at or above the level of Algebra I. Shall include at least two course selections from among Algebra I, Geometry, Algebra, Functions and Data Analysis, Algebra II or courses above the level of Algebra and Geometry. An approved career and technical education completer course may be substituted for the local requirement of a fourth math credit.  |
| Math <sup>1</sup> .....  | 4              |   |
| Science <sup>2,5</sup> .....   | 3              | <sup>2</sup> Shall include course selections from at least two different disciplines: Earth Science, Biology, Chemistry, or Physics.  |
| Social Sciences <sup>3,5</sup> .....   | 4              |   |
| Health & PE.....   | 2              | <sup>3</sup> Shall include U.S. and Virginia History, U.S. and Virginia Government, Arts and two World History/Geography courses.   |
| Foreign Language, Fine Arts or Career & Technical Education <sup>6</sup> ..... | 2              |   |
| Economics & Personal Finance.....  | 1              | <sup>4</sup> Courses to satisfy this requirement shall include at least two sequential electives as required by the Standards of Quality. (Requirement for the Standard Diploma.)   |
| Electives <sup>4</sup> .....   | 6              |   |
| <b>Total.....</b>  | <b>26</b>      | <sup>5</sup> Students who complete a career and technical education program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association or acquires a professional license in a career and technical education field from the Commonwealth of Virginia may substitute the certification, competency credential, or license for (i) the student selected verified credit and (ii) either a science or history and social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the Board of Education as an additional test to verify student achievement. |

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

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

#### **Standard Technical Diploma (6 verified credits)**

| <u>Courses</u>                                  | <u>Credits</u> |  |
|---|----------------|--|
| English.....                                    | 4              | <sup>1</sup> Must be at or above the level of Algebra I. Shall include at least two course selections from among Algebra I, Geometry, Algebra II or courses above the level of Algebra and Geometry. An approved career and technical education completer course may be substituted for the local requirement of a fourth math credit. |
| Math <sup>1</sup> .....                         | 4              |  |
| Science <sup>2,5</sup> .....                    | 3              | <sup>2</sup> Shall include course selections from at least two different disciplines: Earth Science, Biology, Chemistry, or Physics.   |
| Social Sciences <sup>3,5</sup> .....            | 4              |  |
| Health & PE.....                                | 2              | <sup>3</sup> Shall include U.S. and Virginia History, U.S. and Virginia Government, and two World History/Geography courses.   |
| Fine Arts or Foreign Language.....              | 1              |  |
| Economics & Personal Finance.....               | 1              | <sup>4</sup> Courses completed to satisfy this requirement must include a career concentration as approved by the board. If a career concentration includes a specific assessment approved by the board and the student is eligible to take the assessment, then the student must take the assessment.                                 |
| Career & Technical Education <sup>4</sup> ..... | 4              |  |
| Electives.....                                  | 3              | <sup>5</sup> Students who complete a career and technical education program sequence and pass an examination or occupational competency assessment in a career and technical education   |
| <b>Total.....</b>                               | <b>26</b>      |  |

# GENERAL INSTRUCTIONS

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

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

**Advanced Studies Diploma (9 verified credits)**

| <u>Courses</u>                                | <u>Credits</u> |   |
|---|----------------|---|
| English.....                                  | 4              | <sup>1</sup> Must be at or above the level of Algebra I. Shall include at least two course selections from among Algebra I, Geometry, Algebra II or courses above the level of Algebra and Geometry.                      |
| Math <sup>1</sup> .....                       | 4              |   |
| Science <sup>2</sup> .....                    | 4              | <sup>2</sup> Shall include course selections from at least two different disciplines: Earth Science, Biology, Chemistry, or Physics.  |
| Social Studies <sup>3</sup> .....             | 4              | <sup>3</sup> Shall include U.S. and Virginia History, U.S. and Virginia Government, and two World History/Geography courses.  |
| Foreign Language <sup>4</sup> .....           | 3              |   |
| Health & PE.....                              | 2              |   |
| Fine Arts or Career & Technical Education ... | 1              | <sup>4</sup> Courses completed to satisfy this requirement shall include three years of one language or two years of two languages.   |
| Economics & Personal Finance.....             | 1              | <sup>5</sup> A student may utilize additional tests for earning verified credit in computer science, technology, career or technical education, economics, or other areas as prescribed by the board in 8 VAC 20-131-110. |
| Electives.....                                | <u>5</u>       |   |
| <b>Total.....</b>                             | <b>28</b>      |   |

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

**Advanced Technical Diploma (9 verified credits)**

| <u>Courses</u>                                | <u>Credits</u> |   |
|---|----------------|---|
| English.....                                  | 4              | <sup>1</sup> Must be at or above the level of Algebra I. Shall include at least two course selections from among Algebra I, Geometry, Algebra II or courses above the level of Algebra and Geometry.  |
| Math <sup>1</sup> .....                       | 4              |   |
| Science <sup>2</sup> .....                    | 4              | <sup>2</sup> Shall include course selections from at least two different disciplines: Earth Science, Biology, Chemistry, or Physics.  |
| Social Studies <sup>3</sup> .....             | 4              | <sup>3</sup> Shall include U.S. and Virginia History, U.S. and Virginia Government, and two World History/Geography courses.  |
| Foreign Language <sup>4</sup> .....           | 3              |   |
| Health & PE.....                              | 2              |   |
| Fine Arts or Career & Technical Education ... | 1              | <sup>4</sup> Courses completed to satisfy this requirement shall include three years of one language or two years of two languages.   |
| Economics & Personal Finance.....             | 1              | <sup>5</sup> Courses completed to satisfy this requirement must include a career concentration as approved by the board. If a career concentration includes a specific assessment approved by the board and the student is eligible to take the assessment, then the student must take this assessment. |
| Career & Technical Education.....             | <u>5</u>       |   |
| <b>Total.....</b>                             | <b>28</b>      |   |

# GENERAL INSTRUCTIONS

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

**Beginning with the incoming ninth-grade class (Graduating Class of 2015 and beyond,)** students will be permitted to take only one physical education class or physical education elective class per semester, as recommended by the Virginia Department of Education.

### **Special Diplomas**

Students receiving special education services who do not earn the units of credit prescribed by the Board of Education and/or who do not pass the prescribed SOL tests, but who do complete the requirements of their individualized education programs, shall be awarded special diplomas.

### **Modified Standard Diploma**

The modified standard diploma is intended for certain students at the secondary level who have a disability and are unlikely to meet the credit requirements for a standard diploma. Eligibility and participation in the program are determined by the student’s IEP team and the student, when appropriate. Decisions of eligibility and participation may be made at any point *after* the student’s eighth-grade year. Written parental/guardian consent is required for a student to choose this diploma program.

The student must:

- Be allowed to pursue a standard or advanced studies diploma at any time throughout his or her high school career;
- Not be excluded from courses and tests required to earn a standard or advanced studies diploma; and
- Pass literacy and numeracy competency assessments, which are the eighth-grade English Reading/Literature/Research SOL test and the eighth-grade Mathematics SOL test (Board action - November 30, 2000).

### **Modified Standard Diploma Credit and Course Requirements**

| <u>Courses</u>                                   | <u>Credits</u> |   |
|--|----------------|---|
| English.....                                     | 4              | <sup>1</sup> Courses completed to satisfy this requirement shall include content from among applications of Algebra and Geometry in courses that have been approved by the Board.                                 |
| Mathematics <sup>1</sup> .....                   | 3              | <sup>2</sup> Courses completed shall include content from at least two of the following: applications of Earth Science, Biology, Chemistry, or Physics in courses approved by the Board.                          |
| Science <sup>2</sup> .....                       | 2              | <sup>3</sup> Courses completed to satisfy this requirement shall include one unit of credit in U.S. and Virginia History and one unit of credit in U.S. and Virginia Government in courses approved by the Board. |
| Social Studies <sup>3</sup> .....                | 2              | <sup>4</sup> Courses to satisfy this requirement shall include at least two sequential electives in the same manner required for the standard diploma.  |
| Health & P.E. ....                               | 2              |   |
| Fine Arts or Career and Technical Education..... | 1              |   |
| Electives <sup>4</sup> .....                     | 6              |   |
| <b>Total</b>                                     | <b>20</b>      |   |

### **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:

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• Agriscience</li> <li>• Business and Information Technology</li> <li>• Family and Consumer Science</li> <li>• Career Connections</li> </ul> | <ul style="list-style-type: none"> <li>• Health &amp; Medical Sciences</li> <li>• Marketing</li> <li>• Technology Education</li> <li>• Trade and Industrial Occupations</li> </ul> |
|---|--|

### **Fine Arts**

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

### **Math Completers**

Career and technical education completer courses substitute for the fourth locally required math credit. The course sequence must be completed and applied only to the Standard Diploma. If the student doesn't complete the program sequence, the substitution of credit will not be granted. A math course then must be taken at the 11<sup>th</sup> or 12<sup>th</sup> grade level.

# GENERAL INSTRUCTIONS

## Courses Eligible for Math Completers:

**Agriscience** – Three sequential courses either in Horticulture, Agriscience or Small Animal Care

**Automotive Body Technology I, II, III**

**Automotive Service I, II, III**

**Building Trades I, II, III**

**Business Information Technology** – Computer Information Systems I in addition to two other business courses (excluding Introduction to Business)

**CADD I, II, III**

**Carpentry/Cabinetmaking I, II, III**

**Computer Repair Technology II, III**

**Graduating class of 2011 -Construction Technology and Materials and Processing Technology**

**Graduating class of 2012 and beyond – Any three Technology Education Courses**

**Cosmetology I, II, III**

**Culinary Arts I, II**

**Early Childhood Education I, II**

**Electricity Technology I, II, III**

**Fashion I, II**

**Intro to Health and Medical Science and Health Assistant**

**Marketing & Advanced Marketing**, in addition to one other Technical Education course

**TV/Video Production I, II, III**

## Diploma Seals of Achievement

- Governor’s Seal
- Board of Education Seal
- Career and Technical Education Seal
- Advanced Mathematics and Technology Seal
- Excellence in Civics Education

In September 2000, the Board of Education approved criteria for selecting and approving certifications and licenses to satisfy the requirements for the Career and Technical Education Seal and the Advanced Mathematics and Technology Seal.

- The examination must be in a CTE field that confers a certification from a recognized industry, trade, or professional association. For the technology requirements of the Board’s Seal of Advanced Mathematics and Technology, students may elect to pass a Board-approved exam that confers college-level credit in a technology or computer science area.
- The examination must be standardized and graded independently of the school or school division in which the student is enrolled.
- The examination must be knowledge-based.
- The examination must be administered on a multi-state or international basis.
- The course of study for which the student receives a certification must be designed to prepare the student for an occupation or occupational area.

## 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 at least one credit 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 Diploma with a grade point average of 3.6 (A) or above.

## To Earn a Career and Technical Education Seal

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

# GENERAL INSTRUCTIONS

## To Earn an Advanced Mathematics and Technology Seal

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

## To Earn an Excellence in Civics Education Seal

- Satisfy requirement to earn a standard or advanced 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.

## END OF COURSE TESTING

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

### **Social Studies:**

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

### **Mathematics:**

- Algebra B, Part 2
- Algebra I
- Algebra II
- Algebra Functions & Data Analysis
- Geometry
- Geometry B, Part 2

### **Science:**

- Earth Science
- Biology
- Chemistry

### **English:**

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

## STUDENT-SELECTED VERIFIED CREDIT IN CAREER AND TECHNICAL EDUCATION

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

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

## INDUSTRY CERTIFICATIONS AND LICENSURE

Successful completion of these programs in the 2011-2012 school year are eligible for Board approved industry certifications or state license:

- **Advanced Marketing**-National Professional Certification in Customer Service Exam
- **Agriscience III, IV**-NOCTI Production Agriculture
- **Automotive Body Technology III**-National Automotive Students Skills Standards Assessment/ASE/NATEF/SkillsUSA
- **Automotive Service Technology III**- National Automotive Students Skills Standards Assessment/ASE/NATEF/SkillsUSA
- **Building Trades III**-Core: Introductory to Craft Skills, National Construction Careers Test/NCCER
- **Carpentry Cabinet Making III**-Core: Introductory to Craft Skills, National Construction Careers Test/NCCER
- **Computer Aided Design III**-American Design Drafting Association (ADDA) Certification
- **Computer Information Systems II (CIS)**-IC3 Certification/MOS Certification
- **Computer Repair Technology III**-Workplace Readiness NOCTI/IC3 Certification/Certiport
- **Cosmetology III**-Virginia Cosmetology State Board (Licensure)
- **Culinary Arts II**-National Restaurant Association Pro-Start & Serv-Safe Certifications
- **Early Childhood Education II**-Early Childhood Education Test/AAFCS
- **Electricity III** - Core: Introductory to Craft Skills, National Construction Careers Test/NCCER
- **Fashion II** - Workplace Readiness NOCTI/IC3 Certification/Certiport

# GENERAL INSTRUCTIONS

- **Floriculture**-NOCTI Floral Design
- **Health Assistant**-Certified Nursing Assistant (CNA Licensure)
- **TV/Video Production III** – NOCTI Television Broadcasting Assessment

## COURSE DESCRIPTIONS

### AGRISCIENCE

#### **AGRISCIENCE I (Foundations of Agriculture, Food and Natural Resources)**

##### **8006 (1 credit)**

Grade level: 9, 10

Prerequisite: None

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

#### **AGRISCIENCE II (Agriculture Mechanics & Animal Science)**

##### **8008 (1 credit)**

Grade level: 10, 11, and 12

Prerequisite: Agriscience I

Students in this course will participate in hands-on instruction and classroom activities related to animal science, agricultural mechanics and natural resources. Learning to manage farm animals, identifying Virginia game birds and fish, constructing arc welding and woodworking projects and operating agricultural equipment are just a few of the skills to be learned in this course. This course emphasizes leadership and personal skills through participation in the student organization, FFA.

#### **AGRISCIENCE III (Agricultural Production Technology)**

##### **8010 (1 credit)**

Grade level: 10, 11, and 12

Prerequisite: Agriscience II

This course will emphasize student-designed projects related to farm management, crop production and agricultural mechanics. Students will also learn how to select and care for cattle, sheep, swine and horses. Students have the opportunity to apply agricultural mechanics skills through the construction of individualized projects. This course emphasizes leadership and personal skills through participation in the student organization, FFA.

Completer Certification Exam (NOCTI Production Agriculture)

#### **AGRISCIENCE IV (Applied Agricultural Concepts)**

##### **8012 (1 credit)**

Grade level: 11, 12

Prerequisite: Agriscience III

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

# COURSE DESCRIPTIONS

## **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.

## **WELDING II**

**CTE Dual Enrollment**

**8673 (1 credit)**

Grade Level: 10, 11, and 12

Prerequisite: Welding I

Students learn to use gases and electric arc processes to fabricate and weld metal parts according to diagrams. Students will also learn to read blueprints and interpret weld symbols, as well as demonstrating 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.

## **Welding III**

**CTE Dual Enrollment**

**8674 (2 credits, 2 blocks)**

Grade Level: 11, 12

Prerequisite: Welding II

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

## **EQUINE SCIENCE**

**8015 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: None

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

## **SMALL ANIMAL CARE I**

**8083 (1 credit)**

Grade level: 9, 10

Prerequisite: None

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

# COURSE DESCRIPTIONS

## **SMALL ANIMAL CARE II**

### **8084 (1 credit)**

Grade level: 10, 11, and 12

Prerequisite: Small Animal Care I

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

## **OUTDOOR RECREATION AND NATURAL RESOURCES**

### **8045 (1 credit)**

Grade Level: 9, 10, 11, and 12

Prerequisite: None

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

## **HORTICULTURE SCIENCES**

### **8034 (1 credit)**

Grade level: 9, 10

Prerequisite: None

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

## **GREENHOUSE PLANT PRODUCTION**

### **8035 (1 credit)**

Grade level: 10, 11

Prerequisite: Agriscience I or Horticulture Science

Students enrolled in this course learn the operating procedures for a greenhouse. Units of instruction include developing plant production facilities, science application in plant production, and identification of plants. Business management and marketing skills are emphasized to prepare students for careers in the greenhouse plant production and management industry. Leadership development is offered through participation in FFA.

## **FLORICULTURE**

### **8038 (1 credit)**

Grade level: 11, 12

Prerequisite: Greenhouse Plant Production

Students learn the basics of the horticulture plant production industry. Instruction includes the science of plant production as well as marketing and business management. Plant material identification and floral design round out this course to prepare the student for an entry-level position in the floriculture industry. Participation in FFA activities provides leadership development opportunities. Completer Certification: NOCTI Floral Design

# COURSE DESCRIPTIONS

## **LEADERSHIP DEVELOPMENT**

### **9092 (1 credit)**

Grade level: 10, 11, and 12

Prerequisite: None

This course introduces students to concepts and skills related to leadership. Topics to be covered include: Identifying the Characteristics, Roles, and Responsibilities of a Leader; Developing Leadership Skills; Practicing Problem Solving; Managing Meetings, Time, and Resources; Communicating in the Workplace; and Exploring Opportunities for Leadership.

## **BUSINESS AND INFORMATION SYSTEMS**

### **ACCOUNTING I**

#### **6320 (1 credit)**

Grade level: 10, 11, and 12

Prerequisite: Algebra I

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

### **ADVANCED ACCOUNTING**

#### **6321 (1 credit)**

Grade level: 11, 12

Prerequisite: Accounting I

Students gain in-depth knowledge of accounting procedures and techniques used to solve business problems financial decisions. Students use accounting and spreadsheet software to analyze and interpret business applications.

### **BUSINESS LAW**

#### **6132 (1 credit)**

Grade level: 11, 12

Prerequisite: None

This course will incorporate economic and social concepts as they relate to laws affecting businesses and individuals. Course topics include law and the individual, nature and kinds of law, law enforcement and the courts, crimes, torts, and laws affecting rights and responsibilities of minors. A simulated mock trial by students is incorporated in the course.

### **BUSINESS MANAGEMENT**

#### **6136 (1 credit)**

Grade level: 11, 12

Prerequisite: None

In this course students will study basic management concepts and leadership styles as they explore business ownership, planning, economics, international business, and human relations issues such as employee motivation and conflict resolution. The major project for this class is organizing a new business. For additional information on this course, see 2+2+2 Entrepreneurship Programs.

### **ECONOMICS AND PERSONAL FINANCE**

#### **6120 (1 credit)**

Grade level: 11, 12

Prerequisite: None

Students learn how to navigate the financial decisions they must face and to make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living

# COURSE DESCRIPTIONS

independently, and inheritance. Development of financial literacy skills and an understanding of economic principles will provide the basis for responsible citizenship and career success.

## **PROGRAMMING VISUAL BASIC**

### **6640 (1 credit)**

Grade level: 10, 11, and 12

Prerequisite: Algebra I

Computer Programming: Visual Basic is a course that teaches the student object-oriented computer programming using the Visual Basic language. Students will use the microcomputer to solve business and algebraic problems.

## **COMPUTER INFORMATION SYSTEMS I**

### **6614 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: Keyboarding

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

## **COMPUTER INFORMATION SYSTEMS II**

### **6615 (1 credit)**

Grade level: 10, 11, and 12

Prerequisite: Computer Information Systems I

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

## **INTRODUCTION TO PRINCIPLES OF BUSINESS**

### **6116 (1 credit)**

Grade level: 9, 10

Prerequisite: None

Introduction to Business is a foundation course for options in business education. This course is important to all students because all persons are consumers, workers, and citizens affected by the American economy. Students in this course study characteristics of the American enterprise system, business careers, consumer rights and responsibilities, banking services, and money management. This course provides an opportunity for all students to gain knowledge and to develop competence in managing personal and business affairs.

## **KEYBOARDING**

### **6151 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: None

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

# COURSE DESCRIPTIONS

## OFFICE SPECIALIST I

**6740 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: Teacher recommendation

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

## DESKTOP/MULTIMEDIA PRESENTATIONS (WEB DESIGN)

**6632 (1 credit)**

Grade level: 10, 11, and 12

Prerequisite: None

Students will learn to plan, design, implement, promote and maintain an organized, professional website. Study will progress from the basics of HTML programming to the utilization of professional web software (currently using Dreamweaver). A business approach will be taken to encompass the overall life cycle for a successful website. Hence, student projects will not only enable them to do personal Web pages, but more importantly, sites for local businesses, charities or public institutions.

## ENGLISH

| ENGLISH COURSE SEQUENCES   |                     |   |   |
|--|---------------------|---|---|
| <u>Academic Sequence</u>   |                     |   |   |
| English 9  | → English 10        | → English 11*   | → English 12  |
| <u>Honors Sequence</u>   |                     |   |   |
| English 9 Honors   | → English 10 Honors | → English 11 Honors*<br>→ AP English Language<br>and Composition* | → English 12 Honors<br>→ English 12 Dual Enrollment<br>→ Advanced Placement English Literature<br>and Composition |
| English electives, IMC Skills/Library Research, SAT Prep, Journalism I, II, III, and Yearbook I, II, III do not count as English credits but will count as general elective credits. |                     |   |   |
| *End-of-course test required.  |                     |   |   |

## ENGLISH 9

**1092 (1 credit)**

Grade level: 9

Prerequisite: None

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

## ENGLISH 9 HONORS

**1094 (1 credit)**

Grade level: 9

Prerequisite: Middle school teacher recommendation

English 9 Honors is a course designed to challenge the advanced student through in-depth reading and analysis. The level and pace of honors courses will be accelerated. Students may enroll in honors classes with a minimum of a B average in that

# COURSE DESCRIPTIONS

course and teacher recommendation. The study of various literary genres is achieved through a humanities approach with an integration of composition and language study. Vocabulary, grammar, mechanics, and usage skills are refined through application in oral and written expression. Emphasis is on writing with clarity and precision in various rhetorical modes. The course prepares the student to demonstrate mastery of advanced performance standards in language arts as well as state and local standards in English language skills. Computer-assisted instruction will be an integral part of the program, including word processing and Internet use.

## **ENGLISH 10**

### **1102 (1 credit)**

Grade level: 10

Prerequisite: English 9

English 10 Academic continues the student's development in reading comprehension and writing skills. Composition includes personal writing, in all of the rhetorical modes, and research-based writing as it pertains to problem solving and decision making. Differences in literary genres are taught through a thematic approach to the study of a broad range of literature. Language study, vocabulary development, and oral communication skills are integrated with composition. Critical reading and thinking skills are an integral part of the course. Computer-assisted instruction will be an integral part of the program, including word processing and Internet use. This course prepares the student to demonstrate mastery of specific state and local standards in English language skills (SOLs).

## **ENGLISH 10 HONORS**

### **1104 (1 credit)**

Grade level: 10

Prerequisite: English 9 Honors or teacher recommendation

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

## **ENGLISH 11**

### **1112 (1 credit)**

Grade level: 11

Prerequisite: English 10

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

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

## **ENGLISH 11 HONORS**

### **1114 (1 credit)**

Grade level: 11

Prerequisite: English 10 Honors or teacher recommendation

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

This course is designed to meet the needs of the academically talented English student. In keeping with the nature of an honors course, this English class promotes academic excellence and is taught at a rigorous pace. Students may enroll in honors classes with a minimum of a B average in that course and teacher recommendation. An integration of composition,

# COURSE DESCRIPTIONS

literature, and language study is achieved through a survey of American literature with emphasis on the fine arts and humanities. The composition strand includes literary analysis, research-based writing, critical papers using documented sources, personal and creative writing in all rhetorical modes, and writing for publication. Skills of critical reading and thinking form a basis for language study, vocabulary competence, and effective oral communication. Independent reading and collaborative study are crucial to the outcome of this course where expectation for excellence is high. Computer-assisted instruction will be an integral part of the program, including word processing and Internet use.

## **ADVANCED PLACEMENT ENGLISH - LANGUAGE AND COMPOSITION**

### **1196 (1 credit)**

Grade Level: 11

Prerequisites: English 10 and teacher recommendation

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

Advanced Placement English 11 engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and enables them to become effective and confident writers in their college courses across the curriculum and in their professional and personal lives. The content of the course will teach students to read primary and secondary source material carefully, to synthesize material in their own compositions, and to cite source material using conventions recommended by professional organizations. Students will draw from their reading, as well as from personal experience and observation, in order to produce effective expository, analytical, and argumentative writing. This course will also incorporate the teaching of all skills necessary to master the Grade 11 Virginia Standards of Learning. For information regarding Advanced Placement courses, see page 2 in this Course Catalog.

## **ENGLISH 12**

### **1122 (1 credit)**

Grade level: 12

Prerequisite: English 11

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

## **ENGLISH 12 HONORS**

### **1178 (1 credit)**

Grade level: 12

Prerequisite: English 11 Honors or teacher recommendation

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

# COURSE DESCRIPTIONS

## **ENGLISH 12 DUAL ENROLLMENT**

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

Grade level: 12

Prerequisite: English 11 and NRCC Placement Examination and teacher recommendation

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. Students will follow the course guide and will use the texts of New River Community College for English 111 and 112. The course will be taught at Pulaski County High School. Those students who successfully complete the course will receive dual credit through Pulaski County High School and New River Community College. For information regarding Dual Enrollment courses, tuition, and book fees, see page 4 in this Course Catalog.

## **ADVANCED PLACEMENT ENGLISH -LITERATURE AND COMPOSITION**

**1127 (1 credit)**

Grade level: 12

Prerequisite: English 11 and teacher recommendation

Advanced Placement English 12 is a college level course for students with exceptional ability. The content of the course carefully examines notable works from world literature. Through such a study, the students will sharpen their awareness of language and their understanding of the writer's craft. The approach to the study of various literary forms is interpretive, analytical, comparative and critical. This course prepares the student to demonstrate mastery of specific state and local standards in English language skills (SOLs). AP English 12 requires a summer reading component. For information regarding advanced placement courses, see page 2 in this Course Catalog.

## **ENGLISH ELECTIVES**

Will not count as English credit for graduation requirements

## **IMC SKILLS/LIBRARY RESEARCH**

**1601 (1 credit)**

Grade level: 10, 11, and 12

Prerequisite: None

This course in IMC Skills includes practical work in maintaining books and audiovisuals and cataloging in proper order and circulating them through the use of the computer. Units include teaching research skills. The skills learned will be valuable to those students planning to attend college.

## **JOURNALISM I, II, & III**

**1200/1210/1220 (1 credit)**

Grade level: 10, 11, and 12

Prerequisite: None

The Journalism classes are organized as a lab where students participate actively in all phases of the publication of the high school newspaper. Students write and produce each issue of the paper as they develop the following journalism skills: advertising, sales and design, interviewing, news writing, editing, proofreading, page design, newspaper composition, desktop publishing and computer skills.

## **SAT PREP**

**1710 (1 credit)**

Grade level: 10, 11, and 12

Prerequisite: Algebra II, Geometry, English 10

This semester course will be divided into two terms (one term = 45 days for mathematics instruction and one term = 45 days for English instruction). Topics for mathematics include test-taking strategies, review of arithmetic, algebra, geometry, probability, data interpretation, counting and ordering, special symbols, logical analysis, and format of the test. Scientific calculators will be used in this course. Topics in English include analogies, sentence completion, and reading comprehension.

# COURSE DESCRIPTIONS

Students will take a pre-test and a post-test that will provide them with a reference and study guide for improvement. This course will not count as a math or English credit. It will be considered one elective credit.

## **YEARBOOK I, II, AND III**

### **1028/1029/1030 (1 credit)**

Grade level: 10, 11, and 12

Prerequisite: Application required

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

## **FAMILY & CONSUMER SCIENCES**

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

### **EARLY CHILDHOOD EDUCATION I**

#### **8285 (2 credits, 2 blocks)**

Grade level: 9, 10, 11, and 12

Prerequisite: TB test verification and recommendations from two regular or technical education teachers and a case manager, or three regular or technical education teachers. Since these students will be working with young children, an information sheet is required that will focus on attendance and past discipline records.

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 II**

#### **CTE DUAL ENROLLMENT**

#### **8286 (2 credits, 2 blocks)**

Grade level: 10, 11, 12

Prerequisite: Early Childhood Education I and TB test verification

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

### **EARLY CHILDHOOD EDUCATION INTERNSHIP**

#### **8209 (1 credit)**

Grade level: 11, 12

Prerequisite: Successful completion of Early Childhood Education II

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

# COURSE DESCRIPTIONS

## **INTRODUCTION TO FASHION**

### **8247 (1 credit)**

Grade level: 9, 10, 11 (priority given to 9)

Prerequisite: None

Students will study career possibilities related to the exciting world of fashion. Emphasis will be on fashion cycles and history, apparel production, fashion promotion, and retailing. Students will explore fashion in clothing, the home, and related areas. Students will gain a broad sense of how the world of fashion operates. Co-curricular activities are provided through participation in FCCLA (Family, Career, and Community Leaders of America).

## **FASHION I**

### **8280 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Introduction to Fashion

Students will study areas of the clothing industry that include the manufacture of textiles and the marketing industry related to clothing, home interior, and related industries. Students will study fashion careers, trends and fashions. They will also learn about fashion consulting, maintenance, and alterations. Students will learn about the impact of technology on the fashion industry. The course will focus on general employment skills that prepare a student for the exciting and fast-paced world of fashion. Co-curricular activities are provided through participation in FCCLA (Family, Career, and Community Leaders of America).

## **FASHION II**

### **8281 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Fashion I

Students will continue to analyze fashion trends and cycles. Critical analysis methods of promoting apparel and textile products are explored. Students will observe and assess factors that contribute to quality customer relations in the retail business. Co-curricular activities are provided through participation in FCCLA (Family, Career, and Community Leaders of America).

## **FOODS, NUTRITION, AND WELLNESS**

### **8228 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: None

Students will study how to promote wellness and good health, relationships between psychological and social needs and food choices for self and family; preparing and serving nutritious meals and snacks, and selecting and using equipment for food preparation.

## **INTRODUCTION TO HOSPITALITY, TOURISM, AND RECREATION**

### **8258 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: None

Hospitality, Tourism and Recreation class is designed to provide the students with information on the history, organization and career paths available within the industry. Students will gain knowledge of hospitality, lodging and travel procedures with case studies being utilized. Interpersonal skills are important in the hospitality field. Students will be required to use these skills in the real life situations activities such as food sales and customer service activities. Students will benefit from local guest speakers from the hotel, food, and beverage industry. Students are highly encouraged to participate in FCCLA (Family, Career, and Community Leaders of America.)

# COURSE DESCRIPTIONS

## **HOSPITALITY, TOURISM, AND RECREATION I**

### **8202 (1 credit)**

Grade Level: 10, 11, 12

Prerequisite: Introduction to Hospitality, Tourism and Recreation **OR** Nutrition and Wellness

Students begin preparation for employment in hospitality industries by focusing on principles of operations in food services, recreation, hospitality planning, and business relations. Special attention is paid to the development of culinary skills (food sanitation, food preparation, and serving) and customer service skills. Students combine classroom instruction and supervised on-the-job training. Students are highly encouraged to participate in FCCLA (Family, Career and Community Leaders of America.)

## **CULINARY ARTS**

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

## **CULINARY ARTS & RESTAURANT MANAGEMENT I**

### **8274 (2 credits, 2 blocks)**

Grade level: 10, 11, 12 (Preference to 11<sup>th</sup>)

Prerequisite: Application

Instructional units include: Welcome to the Restaurant and Foodservice Industry; Keeping Food Safe; Workplace Safety; Professionalism; Equipment and Techniques; Stocks, Sauces, and Soups; Communication; Management Essentials; Fruits and Vegetables; Serving Your Guests; Potatoes and Grains; and Building a Successful Career in the Industry. Students apply concepts learned in classroom instruction to the operation of a food establishment: The Cougar Den. Students are required to participate in the co-curricular chapter of the Family, Career and Community Leaders of America (FCCLA). Students are required to take the ProStart Level One Exam. Uniform and FCCLA dues total approximately \$25.

## **CULINARY ARTS & RESTAURANT MANAGEMENT II**

### **8276 (2 credits, 2 blocks)**

Grade level: 11, 12

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

Instructional units include: Breakfast Food and Sandwiches; Nutrition; Controlling Foodservice Costs; Salads and Garnishing; Purchasing and Inventory; Meat, Poultry, and Seafood; Marketing and the Menu; Desserts and Baked Goods; Sustainability in Foodservice; and Global Cuisines. Students apply concepts learned in classroom instruction to the operation of a food establishment: The Cougar Cafe. Students have the option of applying into the Foodservice Cooperative Education program with work release credit. Students are required to participate in the co-curricular chapter of the Family, Career and Community Leaders of America (FCCLA). Students are required to take the ProStart Level Two Exam. Uniform and FCCLA dues total approximately \$35.

## **CULINARY ARTS ADVANCED STUDIES & INTERNSHIP**

### **8220 (1 credit, 1 block)**

Grade level: 12

Prerequisite: Successful completion of Culinary Arts II, Culinary Instructor Recommendation.

Under the supervision of the instructor, students will be provided training for management in a food service facility. This course combines independent study and managerial supervision of students working in the school-based enterprises. This

# COURSE DESCRIPTIONS

course targets those students who are highly considering a career in culinary arts. . Students have the option of applying into the Foodservice Cooperative Education program with work release credit. Students are required to participate in the co-curricular chapter of the Family, Career and Community Leaders of America (FCCLA).

## FOOD SERVICE COOPERATIVE EDUCATION

**8293 (1 credit)**

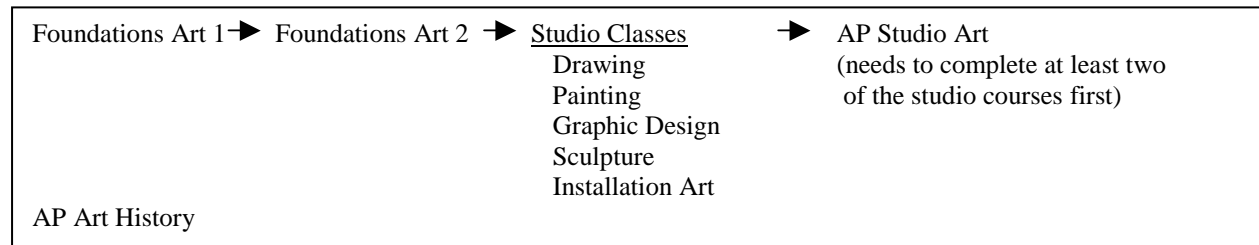
Grade level: 11, 12

Prerequisite: Application Packet

Students enrolled in Culinary Arts have the opportunity to apply to receive work release for once semester while working in a foodservice establishment. To receive credit students are required to work 270 hours throughout the semester (15 hours average per week). Students must meet the following criterion: (1) prior approval is granted by the Culinary Arts Instructor, (2) the student has a training agreement, (3) early release permission form is on file with all the required signatures, (4) is gainfully employed in a position directly related to the foodservice industry, and (5) agrees to be evaluated throughout the year. All conditions must be met before a student receives early release for the entire school year. Students MUST have transportation to leave school premises at the conclusion of third block.

## FINE ARTS

### ART



## FOUNDATIONS ART I

**9120 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: None

In this course, students will be introduced to basic components of design plus methods and techniques in a variety of media such as drawing, painting, printmaking textiles, ceramics, calligraphy and sculpture. Throughout the year the elements of drawing are emphasized, and students complete sketchbook assignments in addition to work done in class. Each student maintains a notebook of classroom activities, art history and art vocabulary in addition to the sketchbook. Student participation in the school exhibit is required. There is a \$12.00 Art fee for this class. Students may take this course once for credit.

## FOUNDATIONS ART II

**9130 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: Foundations Art I

Students will build on the fundamentals learned in Foundations 1 and create projects in drawing, painting, printmaking, ceramics, sculpture, textiles and calligraphy. Students are required to keep a sketchbook of weekly drawing assignments. An overview of art history, vocabulary and techniques is included with each media area. Student participation in school exhibits is required. There is a \$12.00 Art fee for this class. Students may take this course once for credit.

# COURSE DESCRIPTIONS

## **DRAWING (Studio Level)**

### **9131 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Foundations Art 1 and Foundations Art 2

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

## **PAINTING (Studio Level)**

### **9132 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Foundations Art 1 and Foundations Art 2

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

## **GRAPHIC DESIGN (Studio Level)**

### **9134 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Foundations Art 1 and Foundations Art 2

The Graphic Design program at P.C.H.S. is the first step towards learning about a career in commercial graphics. Students will develop an understanding of color and composition, design and typography, and drawing board skills. As they progress through the class, students are trained in creative problem-solving and learn to offer solutions that are effective in the business world. Student participation in school exhibits is required. There is a \$12.00 Art fee for this course. Students may take this class twice for credit.

## **SCULPTURE (Studio Level)**

### **9133 (1 credit)**

Grade Level: 10, 11, 12

Prerequisite: Foundations Art 1 and Foundations Art 2

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

## **PUBLIC INSTALLATION ART (Studio Level)**

### **9135 (1 credit)**

Grade Level: 10, 11, 12

Prerequisite: Foundations Art 1 and Foundations Art 2

The Public Installation class is a community based course that requires a continuous dialogue with local businesses and civic groups. Works are planned and executed with the specific intention of being sited or staged in the public domain, usually outside and accessible to all. Community involvement and collaboration are the basis of this class. Students will meet their benefactor(s) and agree upon a design to be completed within specific time constraints. These installations will be displayed throughout the school, county and its surroundings. Daily attendance is of the utmost importance. There is a \$12.00 Art fee for this class. Students may take this course twice for credit.

# COURSE DESCRIPTIONS

## **ADVANCED PLACEMENT STUDIO ART**

### **9149 (1 credit)**

Grade level: 11, 12

Prerequisite: Completion of two or more of the studio level courses.

This course is designed for the students who are able to complete first year college work while in high school. The course is rigorous, demanding and not recommended for the casually interested. Students will complete extensive outside assignments in two and three dimensional media areas in addition to class work. Students are required to maintain a portfolio and develop an area of concentration in accordance to guidelines set forth by the College Board. All students will be required to submit a portfolio to receive college credit. Students will participate in local and regional art competitions. Students must take the teacher's final exam. There is a \$12.00 Art fee in this class. For information regarding Advanced Placement courses, see page 2 in this Course Catalog.

## **ADVANCED PLACEMENT ART HISTORY**

### **9151 (1 credit)**

Grade Level: 11, 12

Prerequisite: Recommendation from English and History teachers

This course is designed for students who are able to complete first year college work while in high school and who want to thoroughly investigate the concept of aesthetics. This course is rigorous, demanding and not recommended for the casually interested. Students will study the history of art from its prehistoric beginnings to the current era. By the end of the course, students should be able to look at an art object, understand the object's purpose and/or meaning, recognize the object's style/culture/period, describe and discuss it and write about it. Students will complete a series of essays, quizzes and tests that will enable them to take the AP examination (including slide recognition) at the end of the semester. Students may take this course once for credit. For information regarding Advanced Placement courses, see page 2 in this Course Catalog.

## **MUSIC**

### **ADVANCED CONCERT CHOIR**

#### **9281 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Audition, previous choral experience

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

### **FRESHMAN CHORUS**

#### **9279 (1 credit)**

Grade level: 9 (Fall Semester)

Prerequisite: Interest in choral music

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

# COURSE DESCRIPTIONS

## **CONCERT CHOIR**

### **9280 (1 credit)**

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

Prerequisite: Interest in choral music

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

## **LADIES ENSEMBLE**

### **9294 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Audition and previous choral experience

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

## **WIND ENSEMBLE**

### **9234 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: Audition or previously enrolled

Wind Ensemble is a class exclusively for wind students that have successfully completed the middle school band program or have been approved by the band directors. Students will be studying music and all of its elements through the performance of band literature at the highest level (VBODA Grades IV, V, & VI). Students will demonstrate a high level of proficiency on their instruments, and will demonstrate a thorough knowledge of playing fundamentals including scales and rhythms. Wind Ensemble students will perform 3-6 concerts a semester. They will be responsible for some after-school rehearsals prior to concerts.

## **GENERAL MUSIC WITH BEGINNING GUITAR**

### **9250 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: None

General music with beginning guitar is a beginning class. Students will learn the basic element of music and guitar to better understand the study of music. Students will learn to read, notate, organize, and understand music. Students will use their learned knowledge of music to play and perform on guitar. Students will be responsible for purchasing guitar picks, books and rental fee for their guitar (\$35.00).

## **PERCUSSION ENSEMBLE**

### **9240 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: Successful completion of 8th grade band

Percussion Ensemble is a class exclusively for percussion students that have successfully completed the middle school band program or have been approved by the band directors. This is a band class with an emphasis on improving percussion technique. Students will be studying music and all of its elements through the performance of percussion and band literature. Students will demonstrate a high level of proficiency on all percussion instruments and will demonstrate a thorough knowledge of playing fundamentals including scales and rudiments. Percussion Ensemble students will perform 3-6 concerts a semester. They will be responsible for after-school rehearsals prior to concerts.

# COURSE DESCRIPTIONS

## **MUSIC THEORY**

### **9227 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Band, Choir, or proof of private music lessons

Music Theory is an advanced music class for students that excelled in band or choir at PCHS and at the district level, or have proof of private lessons. The focus of the class will be on musicianship, theory, musical materials, and procedures. It will emphasize melody, harmony, texture, rhythm, form, musical analysis, elementary composition, and, to some extent, history and style. Musicianship skills such as dictation and other listening skills, sight-singing, and keyboard harmony will be an important part of the course.

## **MARCHING BAND**

Marching Band is an extension of the Percussion and Wind Ensemble classes. Students must be enrolled in the fall Percussion Ensemble class or Wind Ensemble class to participate in Marching Band. Marching Band will begin during the summer, and summer practices are **required**. Band camp is required, and the camp cost range is \$250-\$300. The marching band is required to attend after-school practices on Tuesdays and Thursdays, all football games, 4-6 Saturday competitions, parades, and other special events. **Students should indicate on the registration forms that they want to participate in Marching Band.**

## **THEATRE ARTS**

### **ADVANCED THEATRE ARTS I AND II**

#### **1440/1441 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Students accepted through application and audition only. Theatre Arts Exploration 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, 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.

### **HISTORY OF DRAMA AND THEATRE**

#### **1420 (1 credit)**

Grade Level: 10, 11, 12

Prerequisite: Theatre Arts Exploration required

This course will examine the existence and development of drama and theatre from its foundations in primitive rituals and storytelling traditions on into its present day applications. The course will also examine the relationship of drama and theatre to the social, economic, and political forces of each age. Time periods being examined include: Greek, Roman, Medieval, Renaissance, Asian Theatre, Restoration Theatre, eighteenth, nineteenth, and twentieth centuries.

# COURSE DESCRIPTIONS

## **STAGE CRAFT AND SET DESIGN I, II**

### **1430/1431 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: None, although Theatre Arts Exploration is recommended

This course will introduce students to many of the technical aspects of play production including set design and construction, lights, sound, special effects, costumes and properties, as well as both stage and house management. Students learn by doing. 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 11<sup>th</sup> and 12<sup>th</sup> grade.

## **FOREIGN LANGUAGE**

### **FRENCH I**

#### **5110 (1 credit)**

Grade level: 9, 10, 11, and 12

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

### **FRENCH II**

#### **5120 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: Successful completion of French I

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

### **FRENCH III**

#### **5130 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Successful completion of French II

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

### **FRENCH IV**

#### **5140 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Successful completion of French III

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

# COURSE DESCRIPTIONS

## **ADVANCED FRENCH**

### **5170 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Successful completion of French IV

This course is recommended for students who hope to be exempted from college foreign language requirements. Instruction continues in language proficiency, with a thorough grammar review. An increased emphasis is placed on listening, speaking skills and modern literature.

## **GERMAN I**

### **5210 (1 credit)**

Grade level: 9, 10, 11, and 12

Listening, speaking, reading and writing are the four essential skills emphasized in beginning German. The development and practice of good pronunciation, the building of basic vocabulary, and fundamental grammar/usage are essential. Skills leading toward fluent communication are emphasized. The history, culture and geography of Germany and the German-speaking world are introduced.

## **GERMAN II**

### **5220 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: Successful completion of German I

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

## **GERMAN III**

### **5230 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Successful completion of German II

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

## **GERMAN IV**

### **5240 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Successful completion of German III

This course is strongly recommended for students who plan to continue the course of German in college or for those who hope to be exempted from college foreign language requirements. Instruction continues in language proficiency, with a thorough grammar review. There is increased emphasis on listening, comprehension, speaking skills, and an introduction to modern literature.

## **ADVANCED GERMAN**

### **5270 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Successful completion of German IV

This course is recommended for students who hope to be exempted from college foreign language requirements. Instruction continues in language proficiency, with a thorough grammar review. An increased emphasis is placed on listening, speaking skills and modern literature.

# COURSE DESCRIPTIONS

## **SPANISH I**

### **5510 (1 credit)**

Grade level: 9, 10, 11, and 12

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: Successful completion of Spanish I

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

## **SPANISH III**

### **5530 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Successful completion of Spanish II

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

## **SPANISH IV**

### **5540 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Successful completion of 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.

## **ADVANCED SPANISH**

### **5570 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Successful completion of Spanish IV

Advanced grammar and vocabulary will be considered, and an increased emphasis will be given to reading and composition on the level of ideas and their interpretation. At least one substantial piece of literature will be read. The course will be conducted entirely in Spanish.

## **SPANISH FOR TODAY'S WORLD\***

### **5512 (1 credit)**

Grade level: 9, 10, 11, and 12 (priority given to 11 and 12)

Prerequisite: None

This course is an introduction to conversational Spanish at a fundamental level. It will contain an overview of Hispanic culture and geography. Students will learn pronunciation, basic vocabulary and structure. Topics will include greetings and goodbyes, introducing oneself and others, asking and understanding directions, expressing needs, telling time, and asking perfunctory questions. \*This class will not meet the requirements for an Advanced Studies Diploma.

# COURSE DESCRIPTIONS

## HEALTH & MEDICAL SCIENCES

### INTRODUCTION TO HEALTH & MEDICAL SCIENCES

#### **8302 (1 credit)**

Grade level: 10, 11, and 12

Prerequisite: None

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

### HEALTH ASSISTANT

#### CTE DUAL ENROLLMENT

#### **8360 (2 credits)**

Grade level: 11, 12

Prerequisite: Introduction to Health and Medical Sciences

Health Assistant is a two-block course that qualifies students to take the Virginia State Certification Exam for Nursing Assistants (CNA). The Virginia Certification for Nursing Assistants exam or the NOCTI Industry Certification exam will be required to satisfactorily complete this course. Students are introduced to a wide variety of basic skills related to the healthcare field, including non-nursing areas. Instruction includes an overview of the healthcare system, body structure and function, principles of health and disease, infection control, body mechanics, personal care, medical ethics, and safety in the workplace. Students attend clinical experiences for a minimum of 40 hours at a local healthcare facility. HA students will provide hands-on patient care with instructor supervision. Students will become American Red Cross Professional CPR certified. **Students must be 16 years of age in order to participate in clinical rotation.**

## HEALTH AND PHYSICAL EDUCATION

Beginning with the incoming ninth-grade class (Graduating Class of 2015 and beyond), students will be permitted to take only one physical education class or physical education elective class per semester, as recommended by the Virginia Department of Education.

### HEALTH & PHYSICAL EDUCATION 9

#### **7300, GIRLS; 7301, BOYS (1 credit)**

Grade level: 9

Prerequisite: None

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

### HEALTH & PHYSICAL EDUCATION 10

#### **7400, GIRLS; 7401, BOYS (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, 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 1<sup>st</sup> nine weeks of each

# COURSE DESCRIPTIONS

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 2<sup>nd</sup> nine weeks of the semester.

## HEALTH & PHYSICAL EDUCATION ELECTIVES

Will not count as Health and Physical Education credit for graduation requirements.

## PERSONAL FITNESS COURSES MISSION STATEMENT

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

### PERSONAL FITNESS LEVEL 1

#### 7681 (1 credit)

Grade level: 9, 10 11, and 12

Prerequisite: None

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

### PERSONAL FITNESS LEVEL 2

#### 7682 (1 credit)

Grade level: 9, 10, 11, and 12

Prerequisite: Successful completion of Level 1

This course is a continuation of the previous level with an emphasis on increased intensity in weight training and interval agility training. The course will be designed to continue mastery of weight training technique, dynamic and static stretching, aerobic and anaerobic exercises, 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, 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 skill. 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.

# COURSE DESCRIPTIONS

## **PERSONAL FITNESS LEVEL 4**

### **7684 (1 credit)**

Grade level: 10, 11, 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 portfolio developed in previous levels of fitness and conditioning courses. This course has an increased workload and performance expectation. Data will be gathered to assess head to toe fitness levels. The student will be responsible for developing his/her individual ideas tailored to their specific sport and life skill. Each student will maintain a personal profile as a means to measure progress and growth.

## **PERSONAL FITNESS LEVEL 5**

### **7685 (1 credit)**

Grade level: 11, 12

Prerequisite: Successful completion of Level 4.

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 through advanced skill training. Students will also be encouraged and motivated to continue additions to portfolio. A required research paper on preferred lifetime activity will be required for the final examination. 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 6**

### **7686 (1 credit)**

Grade Level: 11, 12

Prerequisite: Successful completion of Level 5.

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 portfolio. This class requires a research paper on sport of choice. 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.

## **ATHLETIC TRAINING**

### **7675 (1 credit)**

Grade level: 11, 12

Prerequisite: Chemistry or concurrently enrolled in Chemistry

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

# COURSE DESCRIPTIONS

## MARKETING EDUCATION

### **INTERNET MARKETING**

#### **8125 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Must be familiar with Microsoft Word

This course is for students interested in conducting business on the Internet, creating and maintaining Web sites, and/or considering marketing careers. Web-based projects will include: creating a personal homepage and linking class assignments to the page, developing departmental Web sites, building community Web sites and constructing a personal on-line portfolio. Macromedia Dreamweaver and Macromedia Fireworks (web design editors) will be used in this course.

### **MARKETING**

#### **8120 (2 credits, 1 block)**

Grade level: 11, 12

Prerequisite: None

Marketing students will receive a combination of classroom instruction and a minimum of 270 hours of continuous supervised on-the-job training throughout the school year. Students develop skills in the areas of personal selling, advertising, human relations, product/service technology and related instructional areas. Marketing students must be gainfully employed within the 7 day drop/add period and work an average of 15 hours per week.

### **ADVANCED MARKETING CTE DUAL ENROLLMENT**

#### **8130 (2 credits, 1 block)**

Grade level: 12

Prerequisite: Marketing

Advanced Marketing is a senior level course designed to provide students with skills for advancement to supervisory and management positions in the field of marketing. Students must work the required 540 hours on-the-job training (15 hours average per week). (NRCC, MKT 100) Students will be required to take the National Professional Certification in Customer Service Exam.

Students enrolled in Advanced Marketing will have the opportunity for early release the semester in which they are enrolled. Students who are enrolled in second semester Advanced Marketing have the opportunity for early release during the entire school year (both semesters) under the following conditions: (1) prior approval is granted by the Marketing instructor, (2) the student passed Marketing with a "C" or higher, (3) the student has a training agreement, training plan, (4) early release permission form is on file with all the required signatures, (5) is gainfully employed, (6) agrees to be evaluated throughout the year, and (7) reports to the Advanced Marketing instructor during the first 7 days of the semester to discuss coordination visits. All conditions must be met before a student receives early release for the entire school year. Violation of the above conditions may result in the removal of the student from the Advanced Marketing class, which will result in loss of credit and forfeit of early release privileges for the remainder of the school year.

### **SPORTS, ENTERTAINMENT, AND RECREATION MARKETING**

#### **8176 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: None

Sports, Entertainment, and Recreation Marketing (SER Marketing) explores this growing field from the economics and business side to the promotional and interpersonal aspects. As SER Marketing grows, so do the career opportunities both locally and throughout the world. This course offers interested students an opportunity to work with local business and community organizations in promoting events, exploring sponsorships, developing security plans for sports, entertainment, and recreation events. An interest in the sports, entertainment, and recreation marketing career field is preferred. Students develop skills in the areas of marketing analysis, event marketing, communication and human relations, along with a thorough understanding of the sports, entertainment and recreation industry and career options available.

# COURSE DESCRIPTIONS

## MATHEMATICS

### MATHEMATICS COURSE SEQUENCES

|                      |                       |                                 |                      |                          |  |
|----------------------|-----------------------|---------------------------------|----------------------|--------------------------|--|
| Introductory Algebra | → Algebra B, Part I   | → Algebra B, Part II*           | → Geometry B, Part I | → Geometry B, Part II*   | → Algebra, Functions and Date Analysis |
| Algebra B, Part I    | → Algebra B, Part II* | → Geometry B, Part I            |                      | → Geometry B, Part II*   | → Algebra, Functions and Date Analysis |
|                      | → Algebra I*          | → Geometry A*                   | → Algebra II*        |                          |  |
|                      |                       |                                 |                      | → Discrete Mathematics   |  |
|                      |                       |                                 |                      | → Probability/Statistics |  |
| Algebra I*           | → Geometry A*         | → Algebra II*                   |                      |                          | → Advanced Algebra/Trigonometry        |
| Geometry A*          | → Algebra II*         | → Advanced Algebra/Trigonometry |                      |                          | → Calculus                             |
|                      |                       |                                 |                      |                          | → Probability/Statistics               |
|                      |                       |                                 |                      |                          | → Discrete Mathematics                 |
| Geometry (H)*        | → Algebra II (H)*     | → Pre-Calculus (H)              |                      |                          | → Calculus → A.P. Calculus             |
|                      |                       |                                 |                      |                          | → Probability/Statistics               |
|                      |                       |                                 |                      |                          | → Discrete Mathematics                 |

**Math electives, Introductory Algebra, Algebra B Part I and Geometry B Part I do not count as a math credit but will count as general elective credits beginning with the ninth grade class of 2010-2011.**

\*End-of-course test required.

### INTRODUCTORY ALGEBRA

#### **3111 (1 credit) (Elective credit)**

Grade level: 9

Prerequisite: None

Introductory Algebra is designed to improve a student's mathematics skills in preparation for an Algebra course. The Algebra skills studied will include algebraic expressions, order of operations, signed numbers, equations, rules of exponents and related problem solving situations. Strategies and activities in applying skills in concrete and visual situations will be utilized.

### ALGEBRA B, PART I

#### **3131 (1 elective credit) (Elective credit beginning with the ninth grade class of 2010-2011)**

Grade level: 9, 10

Prerequisite: None

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

### ALGEBRA B, PART II

#### **3132 (1 credit)**

Grade level: 9, 10, 11

Prerequisite: Algebra B, Part I

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

Algebra B, Part II will continue the study of topics begun in Algebra B, Part I and extends the study to include fundamental operations with algebraic functions, equations, graphing, linear equations, inequalities in two variables, and quadratic

# COURSE DESCRIPTIONS

equations. A student who successfully completes Algebra B, Part II may continue to Geometry B, Part I or Geometry with teacher recommendation. Graphing calculators will be used in this course to enforce algebraic concepts.

## **ALGEBRA I**

### **3130 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: Pre-Algebra experience, teacher recommendation

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

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

## **ALGEBRA, FUNCTIONS, AND DATA ANALYSIS**

### **3136 (1 credit)**

Grade level: 9, 10, 11, and 12

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

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

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

## **ALGEBRA II**

### **3135 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: Algebra I or Algebra B, Part I and II, and Geometry. Students should have earned at least a “C” average in prior Algebra courses.

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

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

## **ALGEBRA II HONORS**

### **3137 (1 credit)**

Grade level: 9, 10

Prerequisite: Algebra I and Geometry

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

Algebra II Honors is designed to be a more rigorous course in Algebra II. Students will explore topics that include the studies introduced in Algebra I, and extend the study to include linear and quadratic equations, rational and radical expressions, the complex number system, conic sections, exponential and logarithmic functions, n-th degree polynomials, sequences and series, probability, permutations and combinations, matrices and other related topics. Graphing calculators will be used in this course to enforce algebraic concepts.

# COURSE DESCRIPTIONS

## **ADVANCED ALGEBRA/TRIGONOMETRY**

### **3163 (1 credit)**

Grade level: 11, 12

Prerequisite: Geometry A and Algebra II

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

## **PRE-CALCULUS HONORS**

### **3169 (1 credit)**

Grade level: 11, 12

Prerequisite: Geometry A or Geometry H with a minimum of B average and Algebra II H

Pre-Calculus Honors is designed to be a rigorous class. Students move rapidly through trigonometry and advanced algebra concepts. Strong emphasis will be devoted to topics used in calculus in order to prepare students for advanced placement in calculus.

## **CALCULUS**

### **3171 (1 credit)**

Grade level: 11, 12

Prerequisite: A minimum of a 'C' average in Advanced Algebra/Trigonometry or Pre-Calculus Honors

Calculus will include topics equivalent to freshman calculus in college.

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

## **ADVANCED PLACEMENT CALCULUS**

### **3177 (1 credit)**

Grade level: 12

Prerequisite: Calculus

In Advanced Placement Calculus students will be challenged to achieve their maximum potential and are prepared to take the Advanced Placement examination. Topics include functions, limits, and continuity, derivatives and differentiation, definite, and indefinite integral, integration, infinite series, vectors and other topics that will challenge academically gifted students. There will be no attendance-based exam exemption in AP courses. For information regarding Advanced Placement courses, see page 2 in this Course Catalog.

## **COLLEGE READINESS MATH**

### **3180 (1 credit)**

Grade level: 12

Prerequisite: NRCC's math placement test which will be administered during the spring of junior year.

This course is designed to bridge the gap between a weak mathematical foundation and the knowledge for the study of mathematics courses in college. It will cover real numbers, fractions, equations and inequalities, exponents, polynomials, factoring, Cartesian coordinate system, systems of equations, rational expressions, and applications. Upon successful completion of this course and its final exam, the student will not be required to take the math placement test again if enrolling at New River Community College. This course will not count for college credit.

# COURSE DESCRIPTIONS

## **CONSUMER MATH**

### **3128 (1 credit)**

Grade level: 11, 12

Prerequisite: None

Consumer Math will include a review of basic mathematical principles. Topics include interest, banking, credit, ownership, buying, selling, insurance, discounts, taxes, profit, loss, units of measurement, and other related consumer problems. Calculators will be used in this course.

## **DISCRETE MATHEMATICS**

### **3178 (1 credit)**

Grade level: 11, 12

Prerequisite: Geometry and Algebra II

Discrete Mathematics is a branch of mathematics that specifically addresses situations or problems found in the real world including business, government and labor. Topics include: counting and probability, graphs and their applications, patterns, elections and sampling theory, matrix operations and analysis. This branch of mathematics is receiving increasing attention from mathematics educators and aids students in decision making.

## **GEOMETRY B, PART I**

### **3141 (1 credit) (Elective credit beginning with the ninth grade class of 2010-2011)**

Grade Level 9, 10, 11, and 12

Prerequisite: Algebra B, Parts I and II or Algebra I

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

## **GEOMETRY B, PART II**

### **3142 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: Geometry B, Part I

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

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

## **GEOMETRY A**

### **3143 (1 credit)**

Grade level: 9, 10, 11, and 12

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

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

Geometry A will include the study of the concepts of plane, space, and coordinate geometry.

An extensive study is made of lines, planes, angles, and their relationships. Emphasis is placed on deductive proofs, construction of figures using basic, geometric tools, and applications of geometric concepts to practical situations.

## **GEOMETRY A HONORS**

### **3145 (1 credit)**

Grade level: 9, 10, 11 and 12

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

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

Geometry A Honors is designed to be a rigorous class. Students explore concepts of plane, space, and coordinate geometry. Students will use geometric instruments to reinforce these concepts. This is a challenging course that moves at an accelerated pace.

# COURSE DESCRIPTIONS

## PROBABILITY/STATISTICS

### 3190 (1 credit)

Grade Level: 11, 12

Prerequisites: Geometry and Algebra II

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

## SAT PREP

### 1710 (1 credit) (Elective credit)

Grade level: 10, 11, 12

Prerequisite: Algebra II, Geometry, English 10

This semester course will be divided into two terms (one term = 45 days for Mathematics instruction and one term = 45 days for English instruction). Topics for mathematics include test-taking strategies, review of arithmetic, algebra, geometry, probability, data interpretation, counting and ordering, special symbols, logical analysis, and format of the test. Scientific calculators will be used in this course. Topics in English include analogies, sentence completion, and reading comprehension.

Students will take a pre-test and a post-test that will provide them with a reference and study guide for improvement. This course will not count as a math or English credit. It will be considered one elective credit.

## SERVICE LEARNING – MATH PEER TUTORING

### 2502 (1 credit)

Grade level: 11, 12

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

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

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

## SCIENCE

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

# COURSE DESCRIPTIONS

## **BIOLOGY**

### **4300 (1 credit)**

Grade level: 10, 11

Prerequisite: None

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

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

## **BIOLOGY HONORS**

### **4301 (1 credit)**

Grade level: 10, 11

Prerequisite: Successful completion of previous science courses

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

Biology Science Honors is an advanced alternative to Biology Academic. The course will differ from the academic version in textbook, scope and depth of topics covered; and 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 II/ECOLOGY**

### **4407 (1 credit)**

Grade level: 11, 12

Prerequisite: Biology

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

## **DUAL ENROLLMENT BIOLOGY I**

### **4315 (1 high school credit and 4 college credits)**

Grade level: 12

Prerequisite: Successful completion of previous science courses to include Chemistry

This course explores fundamental characteristics of living matter from the molecular level to the ecological community with emphasis on general biological principles. It introduces the diversity of living organisms, their structure, function and evolution. The course is designed to allow the student who is academically advanced to enroll in a college course during his or her senior year. Students will follow the course guide and will use the texts of New River Community College for Biology 101. Those students who successfully complete the course will receive dual credit through Pulaski County High School and New River Community College. For information regarding Dual Enrollment courses, tuition, and book fees, see page 4 in this Course Catalog.

## **DUAL ENROLLMENT BIOLOGY II**

### **4316 (1 high school credit and 4 college credits)**

Grade level: 12

Prerequisite: Dual Enrollment Biology I

This course explores fundamental characteristics of living matter from the molecular level to the ecological community with emphasis on general biological principles. It introduces the diversity of living organisms, their structure, function and evolution. The course is designed to allow the student who is academically advanced to enroll in a college course during his or her senior year. Students will follow the course guide and will use the texts of New River Community College for Biology 102. Those students who successfully complete the course will receive dual credit through Pulaski County High School and New River Community College. For information regarding Dual Enrollment courses, tuition, and book fees, see page 4 in this Course Catalog.

# COURSE DESCRIPTIONS

## **CHEMISTRY**

### **4410 (1 credit)**

Grade level: 10, 11, 12

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

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

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

## **EARTH SCIENCE**

### **4200 (1 credit)**

Grade level: 9

Prerequisite: None

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

The main emphasis of this course is earth-space science and will use the Earth Science Standards of Learning. These standards specifically require the study of certain mathematics, chemistry, and physics concepts as well as several biological principles. Earth Science students will use computer technology, 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.

## **EARTH SCIENCE HONORS**

### **4201 (1 credit)**

Grade level: 9

Prerequisite: Middle school teacher recommendation

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

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

## **ENVIRONMENTAL SCIENCE**

### **4271 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Earth Science and Biology

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

## **ADVANCED PLACEMENT/DUAL ENROLLMENT ENVIRONMENTAL SCIENCE**

### **4272 (1 credit)**

Grade Level 11, 12

Prerequisites: Successful completion of previous science courses to include Chemistry

College level Environmental Science provides an investigative approach to the interrelationships of the natural world through the study of fundamental concepts, principles, and methodologies of environmental science, with an emphasis on inquiry and critical thinking skills which include problem solving and experimental investigations. Upon completion of the course, the

# COURSE DESCRIPTIONS

student will better understand the environmental issues facing his/her generation on a local as well as global level, and make informative decisions that will affect the environmental future of our planet. For information regarding Advanced Placement and Dual Enrollment courses, see page 2 in this Course Catalog. For information regarding tuition and book fees, see page 4 in this Course Catalog.

## **METEOROLOGY**

### **4255 (1 credit)**

Grade level: 11, 12

Prerequisite: Successful completion of previous classes to include Chemistry

A survey course that looks in detail at the science dealing with the lower atmosphere. Special emphasis is placed on computer technology in making weather observations, data collection, and forecasting. Students will utilize a computerized weather station as well as resources on the Internet to analyze present weather conditions and formulate forecasts.

Course content will include topics strongly tied to forecasting, such as instrumentation, large-scale weather systems, winds, and precipitation. Special emphasis will be placed on severe weather, and students will track the events as they unfold both locally and across the U.S.

Students successfully completing this course may apply for a position on a two-week storm-chasing trip to the Great Plains with the instructor and forecasters from the National Weather Service.

## **PHYSICS**

### **4510 (1 credit)**

Grade level: 11, 12

Prerequisite: Trigonometry or Pre-Calculus

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.

## **SOCIAL STUDIES ELECTIVES**

### **ECONOMICS**

#### **2810 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: None

The basic economics course will be a study of the comparative benefits of the free enterprise system and the economic interdependence of people, businesses, and government in the free enterprise system. It will describe the concepts of microeconomics (inflation, national debt, deficits, interest rates, etc.) as well as the main elements of macroeconomics (factors of production, supply and demand, interrelations of economic sectors, etc.). The key elements of monetary and fiscal policy will be discussed as well as money management and budgetary policy. This course will discuss how students can use economic decisions (buying and/or renting houses and apartments, purchasing a vehicle, investing in the stock market, etc.). Finally, the basic economics course will introduce students to the comparative benefits and/or drawbacks of the economic system in the United States and will offer comparisons with other economic systems in the world. Upon completion of this course, a student will be prepared to better understand the economic elements of the U.S. Government class Standards of Learning (taken in the twelfth grade) and/or a background to the college-level economics course.

# COURSE DESCRIPTIONS

## **INTRODUCTION TO PHILOSOPHY**

**2850 (1 credit)**

Grade Level: 12

Prerequisite: Instructor permission (based on interview and critical response to assigned reading)

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

## **PSYCHOLOGY**

**2900 (1 credit)**

Grade level: 11, 12

Prerequisite: None

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

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

## **ADVANCED PLACEMENT PSYCHOLOGY**

**2902 (1 credit)**

Grade level: 11, 12

Prerequisite: Psychology or teacher recommendation

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

The aim of this course is to provide the student with a learning experience equivalent to that obtained in most college introductory psychology courses. Another goal of this course is to prepare students to take the AP Exam and receive a passing score. A passing score will earn the student a college credit for this class. Due to the subjective nature of this class, students will be exposed to various thinking styles and terminology on a constant basis. It should be understood at the course outset that the expectations of this class are consistent with those of any advanced placement course. Students should expect a workload similar to what they would have if they were to complete this course at the college level. For information regarding Advanced Placement courses, see page 2 in this Course Catalog. For information regarding tuition and book fees, see page 4 in this Course Catalog.

## **SERVICE LEARNING**

**2500 (1 credit)**

Grade level: 11, 12

Prerequisite: None

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

# COURSE DESCRIPTIONS

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

## SERVICE LEARNING – PEER MEDIATION

### 2501 (1 credit)

Grade level: 10, 11, 12

Prerequisite: Application and Training

Peer mediation is designed to help students find alternative ways to resolve differences with others and encourage them to discover solutions to their own problems in constructive manners. Peer mediators are upper classmen on campus who are trained to aid students in conflict resolution. The students involved in Peer Mediation go through an extensive training process. Peer Mediators also assist in creating and implementing programs within the school that contribute to the positive environment at Pulaski County High School. While not busy with mediation sessions, peer mediators are also expected to serve as Peer Tutors and Peer Mentors when appropriate. Students will go into classes or work one-on-one with other students to help them achieve academic success. Students will also mentor younger students in order to help with the transition to high school and with any other social needs.

## SOCIAL STUDIES

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

## U.S. GOVERNMENT ACADEMIC

### 2440 (1 credit)

Grade level: 12

Prerequisite: World History to 1500/World Geography **OR** World History 1500/World Geography Honors, World History 1500 to the Present/World Geography **OR** World History 1500 to the Present/World Geography Honors; U.S. History **OR** Advanced Placement 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.

# COURSE DESCRIPTIONS

## **ADVANCED PLACEMENT U.S. GOVERNMENT**

**2445 (1 credit)**

Grade level: 12

Prerequisite: World History to 1500/World Geography **OR** World History to 1500/World Geography Honors; World History 1500 to the Present/World Geography **OR** World History 1500 to the Present/World Geography Honors; U.S. History **OR** Advanced Placement U.S. History (\*Advanced Placement and Honors courses preferred.)

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

The historical evolution of present-day governmental roles and structures is studied with a concentration on the importance of the Constitution and its interpretations in defining the powers of government. Specifically, the course will be divided into five particular areas. First, the constitution underpinnings of the U.S. government will be reviewed, with an emphasis on democratic theory and philosophy as well as an historical background to the Constitutional convention. Second, political beliefs and behaviors that have shaped or have been shaped by political parties and political leaders will be discussed. Third, the importance of voting and individual political participation will be studied. Next, the civil freedoms guaranteed to all individuals will be presented. Finally, the largest portion of the A.P. class will be devoted to the institutions of national government — the Congress, the president, the court systems, and the vitally important, yet largely unfamiliar fourth "branch" (the bureaucracy) — and how each of those branches help create public policy. For information regarding Advanced Placement courses, see page 2 in this Course Catalog.

## **U.S. GOVERNMENT DUAL ENROLLMENT**

**2443 (1 credit, NRCC class PLS 135 and PLS 136, 6 semester hours college credit)**

Grade level: 12

Prerequisite: NRCC Placement Examination and teacher recommendation

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. Students will follow the course guide and will use the texts of New River Community College for Political Science 135 and 136. The course will be taught at the high school and tuition must be paid by the student. Those students who successfully complete the course will receive dual credit through Pulaski County High School and New River Community College. For information regarding Dual Enrollment courses, see page 2 in this Course Catalog. For information regarding tuition and book fees, see page 4 in this Course Catalog.

## **U.S. HISTORY**

**2360 (1 credit)**

Grade level: 11

Prerequisite: World History to 1500/World Geography **OR** World History to 1500/World Geography Honors; World History 1500 to the Present/World Geography **OR** World History 1500 to the Present/World Geography Honors

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

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

## **U.S. HISTORY HONORS**

**2362 (1 credit)**

Grade Level: 11

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

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

This course will follow the recommended state Standards of Learning (SOL) 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

# COURSE DESCRIPTIONS

which may include, but not limited to, journals, portfolios, research projects, essays, etc. using a wide variety of sources. Tests will involve covering the SOLs as well as higher level thinking skills.

## **ADVANCED PLACEMENT U.S. HISTORY**

### **2319 (1 credit)**

Grade level: 11, 12

Prerequisite: World History to 1500/World Geography **OR** World History to 1500/World Geography Honors; World History 1500 to the Present/World Geography **OR** World History 1500 to the Present/World Geography Honors (\*Honors courses preferred).

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

Advanced Placement United States History is offered to juniors whose prior academic success indicates they could benefit from taking a college-level history course while still in high school. This course meets the Virginia Standards of Learning, and it helps prepare the student for the national Advanced Placement U.S. History examination, which may qualify him/her for college credit.

A.P. History will cover the history of the United States from the period of colonization through the present. The course explores recurrent themes in our history and stresses the roles of individual Americans in our national development. Particular emphasis will be given to the twentieth century and the expansion of civil rights here at home, as well as the unique impact of America's involvement in world affairs.

Because A.P. History is taught on the college level, students should read and write above grade level. We cover much material quickly, and approximately an hour a night should be devoted to reading, writing, and review of lecture notes. Critical thinking skills are required and will be demonstrated in written essays. A semester portfolio, containing revised samples of student work as well as self-generated assignments will be a major part of the nine weeks grade. For information regarding Advanced Placement courses, see page 2 in this Course Catalog.

## **WORLD HISTORY TO 1500/WORLD GEOGRAPHY**

### **2341 (1 credit)**

Grade level: 9

Prerequisite: None

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

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

## **WORLD HISTORY TO 1500/WORLD GEOGRAPHY HONORS**

### **2343 (1 credit)**

Grade level: 9

Prerequisite: Middle school teacher recommendation

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

This course will follow the recommended state Standards of Learning (SOL) 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.

# COURSE DESCRIPTIONS

## **WORLD HISTORY FROM 1500 TO THE PRESENT/WORLD GEOGRAPHY**

**2342 (1 credit)**

Grade level: 10

Prerequisites: World History to 1500/World Geography

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

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

## **WORLD HISTORY FROM 1500 TO THE PRESENT/WORLD GEOGRAPHY HONORS**

**2344 (1 credit)**

Grade level: 10

Prerequisite: World History to 1500/World Geography **OR** World History to 1500/World Geography Honors (preferred)

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 (SOL) 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.

## **TECHNOLOGY EDUCATION**

### **TECHNOLOGY FOUNDATIONS ('What's Your Point?')**

**8403(1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: None

**GREAT CAREER EXPLORING COURSE!** This course allows students to explore the wide variety fields within technology through projects that revolve around a central theme of expressing their point of view on what they want to become. Students create a digital portfolio of all the projects that they complete during the semester based on their 'dream job.' Students can add to this portfolio throughout high school and use it to submit to college and job applications when the time comes. Course projects include; hand and computer drafting, product development, manufacturing, and marketing, printing, digital photography, animation, video, biotechnology, biomedical, transportation, construction and power and energy. Students study in a well-equipped communications lab to produce group and individual projects based on VA competencies with emphasis placed on self-sufficiency, craftsmanship and career awareness. This course is STEM based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

### **CONSTRUCTION TECHNOLOGY ('How's it Built?')**

**8432 (1 credit)**

Grade level: 9, 10, 11, and 12 (priority 9, 10)

Prerequisite: None

All areas of construction will be reviewed and basic local construction methods will be focused on. Projects include; community planning, site and building layout, structural and civil engineering, residential planning, hand drafting, CAD, frame carpentry, electrical wiring and plumbing systems. Work includes creating components of all of these systems, including using the necessary tools. Students study in a well-equipped production lab to create group and individual projects based on VA competencies with emphasis placed on self-sufficiency, craftsmanship and career awareness.

# COURSE DESCRIPTIONS

## **MATERIALS & PROCESSES TECHNOLOGY ('Investigating')**

**8478 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: None

Like MYTH BUSTERS, we make and break things to understand chemistry and physics. Students will investigate the properties and uses of materials from the categories that all solid objects fall into; metals, ceramics, polymers and composites. The course is spent completing mini-projects. Project examples include making: clay molds, cement forms, glass, glass etching, chain mail, sheet metal working, CAD steel bridges, screwdrivers, wood products, rubber balls, foam balls, plastic molds and more. Product analysis includes: strength tests, endurance tests, impact tests, process tests and analysis of reactive characteristics. Students study in a well-equipped production lab to create group and individual projects based on VA competencies with emphasis placed on self-sufficiency, craftsmanship and career awareness. This course is STEM based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

## **ENERGY & POWER**

**8495 (1 credit)**

Grade Level: 10, 11, 12

Prerequisite: None

MORE POWER with fewer resources now is a major focus of all countries and companies. Students will apply power and energy to systems, devices and transportation vehicles and apply theory to the practical servicing of common machines. Students will make turbines, windmills, solar powered equipment, magnetic levitation devices, pneumatics, hydraulics, and work with petroleum based engines and related electrical, cooling and ignition systems. Students study in a well-equipped production lab to create group and individual projects based on VA competencies with emphasis placed on self-sufficiency, craftsmanship and career awareness. This course is STEM based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

## **INTRODUCTION TO ENGINEERING ('Inventing')**

**8490 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Materials & Processes Technology or Algebra

This INVENTING course is based on student's knowledge of materials and processes, students will investigate the design loop processes, career aspects and the mechanical realities of inventing (engineering.) The first half of the course is based on mini projects that will cover the 17 divisions of engineering including topics such as roller coasters, Rube Goldberg designs, sustainability and biotechnology aspects, power and energy components, transportation, communication, product design, analysis and demand. The second half of the course; students plan, design, produce, and finish an invention project. Students study in a well-equipped production lab to create group and individual projects based on VA competencies with emphasis placed on self-sufficiency, craftsmanship and career awareness. This course is STEM based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

## **ADVANCED ENGINEERING**

**8491 (1 credit)**

Grade Level: 10, 11, 12

Prerequisite: Introduction to Engineering

This INVENTING course is based on student's knowledge of materials and processes and the divisions of engineering. Students will delve deeply into the design loop processes, career aspects and the mechanical realities of inventing (engineering) to learn the applications and design process of engineering, students form engineering teams and select a group design to solve a problem. The majority of this course is based around student choice projects where students plan, design, produce, and finish an invention project that will include many divisions of engineering including; chemical, civil, computer, electrical, fluid, materials, mechanical robotics and systems. Students work on the product design, analysis and demand as well as patent research. Students study in a well-equipped production lab to create group and individual projects based on VA competencies with emphasis placed on self-sufficiency, craftsmanship and career awareness. This course is STEM based, meaning all curriculum reinforces the benchmarks of science, technology, engineering and mathematics education.

# COURSE DESCRIPTIONS

## TRADE AND INDUSTRIAL EDUCATION

### **AUTOMOTIVE BODY TECHNOLOGY I**

#### **8676 (1 credit)**

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

Prerequisite: None

The Collision Repair Program at PCHS has a strong emphasis on painting and refinishing. These students also will be introduced to the use of air brush painting and design.

Students will be working with the siphon feed and gravity feed spray gun, hand & power tools, mig welding, metal working, and small dent repair. Students will be introduced to the safety practices accepted by industry while working in the collision repair shop on various training projects. This is an (ASE) nationally certified program.

### **AUTOMOTIVE BODY TECHNOLOGY II**

#### **8677 (2 credits, 2 blocks)**

Grade level: 10, 11, 12

Prerequisite: Automotive Body Technology I

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

### **AUTOMOTIVE BODY TECHNOLOGY III**

#### **8678 (2 credits, 2 blocks)**

Grade level: 11, 12

Prerequisite: Automotive Body Technology II

Students will be exposed to all phases of the collision repair trade. Emphasis will be placed on use of the spray gun, paint products and their usage, work habits, shop operation and maintenance. Students will continue to focus on the ASE Painting and Refinishing Program. Students will be required to take Automotive Service Excellence ASE/NOCTI Certification.

### **AUTOMOTIVE SERVICE I**

#### **8710 (1 credit)**

Grade level: 10, 11

Prerequisite: None (priority given to 10)

Students will learn to make minor repairs, tune engines, and practice routine maintenance procedures. The study of electrical systems and components of the cooling system is included.

### **AUTOMOTIVE SERVICE II**

#### **8711 (2 credits, 2 blocks)**

Grade level: 11, 12

Prerequisite: Automotive Service I

In Auto Service II, students will learn to repair fuel, electrical, cooling, brake, drive train and suspension systems. Instruction will also be given in the adjustment and repair of individual components and systems such as radiators, transmissions, and carburetors.

# COURSE DESCRIPTIONS

## **AUTOMOTIVE SERVICE III**

**8712 (2 credits, 2 blocks)**

Grade level: 12

Prerequisite: Automotive Service II

Students in Auto Service III will be able to work on cars brought to the auto service shop for repairs such as rebuilding engines and front and rear end alignments. Students will be required to take the ASE Automotive Technician Exam as well as the NOCTI Certification Exam.

## **BUILDING TRADES I**

**8515 (1 credit)**

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

Prerequisite: Strong math skills

Building Trades I begins with instruction in the “Core Curriculum” Introductory Craft Skills. This includes basic safety, construction math, hand tools, power tools, blue print reading, rigging, communications skills, and employability skills. The class will also include some basic masonry, carpentry, electricity and plumbing. The class will focus on student learning in the area of home repairs, and could provide the basis for a construction career path.

## **BUILDING TRADES II**

**8516 (2 credits, 2 blocks)**

Grade level: 10, 11, 12

Prerequisites: Building Trades I

This course will build on the four units of masonry, carpentry, plumbing, and electricity that was started in Building Trades I. In addition, the course will cover or build on small business practices, professional development, employability skills, computer proficiency, and community and school awareness. This course is designed to ready students for the world of work and for life.

## **BUILDING TRADES III**

### **CTE DUAL ENROLLMENT**

**8517 (2 credits, 2 blocks)**

Grade level: 11, 12

Prerequisite: Building Trades II

Building Trades III takes the four trades in masonry, carpentry, plumbing and electricity to the advanced level. It also covers, in greater detail, small business ownership and the laws that govern this. This course includes professional development, one-on-one contact with business and industry personnel, and assisting with job placements. Students that finish this level are ready to serve as apprentices under master tradesmen and can complete most home repairs. Upon successful completion of this course, students will be required to take the Core: Introductory Craft Skills, National Construction Career Test (NCCER).

## **CARPENTRY CABINETMAKING I**

**8601 (1 credit)**

Grade level: 9, 10, 11

Prerequisite: None

This class is designed to teach fundamental skills associated with layout, framing, and constructional materials. Students learn workshop and tool safety and employability skills as they engage in projects cutting, shaping, assembling and refinishing of wood pieces. Instruction will also include planning and wood drafting layouts. The technical, problem solving, leadership and creative skills learned in this class can be applied in industries, construction trades and professions for lifelong learning and success. This class allows students to participate in Skills USA.

# COURSE DESCRIPTIONS

## **CARPENTRY CABINETMAKING II**

**8602 (1credit)**

Grade level: 10, 11, 12

Prerequisite: Carpentry Cabinetmaking I

Students continue to learn workshop and tool safety and enhance their employability skills. Students become involved in more advanced projects as they estimate and select materials, that involve cutting, shaping, assembling and refinishing of wood pieces. The technical, problem solving leadership and creative skills learned in this class can be applied in industries, constructive trades and professions for lifelong learning and success. This class allows students to participate in Skills USA.

## **CARPENTRY CABINETMAKING III**

### **CTE DUAL ENROLLMENT**

**8604 (2 credits, 2 blocks)**

Grade level: 11, 12

Prerequisite: Carpentry Cabinetmaking II

This course prepares students for success in the carpentry profession. Students use hand and power tools to build and complete assigned projects. This course allows students to work on and construct more complex assignments as they learn to estimate and select building materials. This class allows students to participate in Skills USA. Students are required to take the NOCTI Certification exam upon successful completion of this class.

## **COMPUTER AIDED DRAFTING AND DESIGN I (CADD)**

**8550 (1 credit)**

Grade level: 9, 10, 11

Prerequisite: Algebra I (or be enrolled in Algebra I concurrently with CADD I)

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

## **COMPUTER AIDED DRAFTING AND DESIGN II (CADD)**

**8551 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: CADD I

This class will offer students the opportunity to expand their knowledge of drafting and design with the use of Auto-Cad. They will be introduced to 3D modeling and architectural design. Emphasis will be placed on producing high quality work at industry standards. Students' lab time will be project based.

## **COMPUTER AIDED DRAFTING AND DESIGN III (CADD)**

### **CTE DUAL ENROLLMENT**

**8552 (2 credits, 2 blocks)**

Grade level: 11, 12

Prerequisite: CADD II

This class is for advanced students who have completed levels I & II in CADD. Students will concentrate on completing entire projects from initial conception of design through the finished architectural, civil engineering and 3D modeling design phase. Students will continue to work with 3D design and will complete several projects utilizing this technology. Upon successful completion of this course, students will be required to take the Certified Drafter Exam given by American Design Drafting Association International (ADDA) [www.adda.org](http://www.adda.org)

# COURSE DESCRIPTIONS

## **COMPUTER MAINTENANCE**

**8621 (1 credit)**

Grade level: 11, 12

Prerequisite: None

Students enrolled in this course will learn fundamental skills associated with maintenance of computers; to construct, trouble shoot, service and repair computer systems.

## **COSMETOLOGY I**

**8527 (1 credit)**

Grade level: 10

Prerequisite: None

The care and beautification of hair, complexion, and hands form the basis of this program. Students will learn to style, cut, and shampoo hair; to give scalp treatments, facials, make-ups, manicures, and hand and arm massages. Emphasis also is placed on hygiene, sanitation, customer relations, and salon management. Instruction prepares the student for licensing examinations. Attendance and grades in Cosmetology I will be considered for acceptance into Cosmetology II. This course is for male and female students, and a course fee is required.

## **COSMETOLOGY II**

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

Grade level: 11

Prerequisite: Cosmetology I

Cosmetology refers to the study and practice of beauty culture. Time will be spent learning to care for the hair, skin, scalp, hands and feet. Hair shaping, hair styling, hair coloring, perm-waving, relaxers, and facial make-up will be covered this year. A course fee is required. (Students may opt to intern in a salon.)

## **COSMETOLOGY III**

**8529 (2 credits, 2 blocks)**

Grade level: 12

Prerequisite: Cosmetology II

This is a continuation of Cosmetology II. Students will gradually assume the role of an employee in a lab that is operated as a commercial beauty salon serving outside patrons. At the completion of Cosmetology III, students will sit for state board examination for licensure and completion of program. A course fee is required as well as a state board fee. (Students may opt to intern in a salon.)

## **EDUCATION FOR EMPLOYMENT I**

**9020 (1 credit)**

Grade level: 9, 10, 11, and 12

Prerequisite: Teacher recommendation

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

## **EDUCATION FOR EMPLOYMENT II**

**9021 (2 credits, 2 blocks)**

Grade level: 11, 12

Prerequisite: Education for Employment I and teacher recommendation

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

# COURSE DESCRIPTIONS

## **ELECTRICITY I**

### **8536 (1 credit)**

Grade level: 9, 10

Prerequisite: Algebra I

Students will be introduced to the field of electricity. The course will cover residential, commercial, and industrial wiring methods and materials. Students will be introduced to basic electric theory, electrical safety, electrical tools, electrical equipment, and electrical test equipment. Students will learn to read basic electrical blueprints and basic electrical schematics. Students will be introduced to both residential and commercial wiring systems, including conduit wiring systems. Workmanship and professionalism will be stressed throughout the course. Students will spend a significant amount of class time engaged in hands-on learning.

Electricity I students will be involved in Skills-USA. Students will gain leadership skills and have the opportunity to compete against other students at the local, district, state, and national level.

## **ELECTRICITY II**

### **8537 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: Electricity I

Students will practice commercial and industrial wiring methods. Electric motors and 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.

## **ELECTRICITY III**

### **CTE DUAL ENROLLMENT**

### **8538 (2 credit, 2 blocks)**

Grade level: 10, 11, 12

Prerequisite: Electricity II

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

## **ELECTRICITY IV**

### **8539 (2 credit, 2 blocks)**

Grade level: 12

Prerequisite: Electricity III

Electricity IV will run concurrently with Electricity III for students completing the electricity cluster by the 11<sup>th</sup> grade. Students enrolled in Electricity IV will have the opportunity to enroll in electrical apprenticeship programs through local contractors. Enrollment in Electricity IV will give these students the opportunity to continue their involvement in Skills-USA.

# COURSE DESCRIPTIONS

## **FIREFIGHTING I (Course approved and offered per funding/grant approval)**

### **8705 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: **Note: Students must be at least 16 years old by the first day of the course offering and be registered as a junior firefighter with one of the fire departments in Pulaski County. Students must pass the NFPA Physical in order to be in the course.**

Students are introduced to the equipment and procedures necessary to fight live fires, operate in simulated hazardous-materials incidents, and conduct search-and-rescue operations. Students react to multi-faceted situations (e.g., caused by simulated terrorism, accidents, and natural disasters) as part of an emergency-response team. Students become familiar with emerging technologies such as communications software (e.g., dispatch systems, GIS, mapping systems, incident reporting, and simulation programs), multimedia inputs, thermal imaging cameras, and hazardous gas detectors. Students acquire teamwork, critical-thinking, public-speaking, research, report-writing, and incident-management skills. This course challenges students academically, mentally, and physically.

## **TV/VIDEO PRODUCTION I**

### **8688 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: None

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/VIDEO PRODUCTION II**

### **8689 (1 credit)**

Grade level: 10, 11, 12

Prerequisite: TV/Video Production I

This course is a continuation of Television Production I. Emphasis will be placed on editing, producing, computer editing, professional camcorder use, and videography. Students in this class will produce videos as needed for the student body, the school, and the community.

## **TV/VIDEO PRODUCTION III**

### **8691 (2 credits, 2 blocks)**

Grade level: 11, 12

Prerequisite: TV/Video Production II

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

# COURSE DESCRIPTIONS

## SUMMER SCHOOL

Pulaski County High School tries to offer summer school to students who have previously failed a required course. Letters are sent out at the end of the school year informing students of their failures and the opportunity to retake the course in summer school. Summer school is currently a three-week program where students use a computer-based program, to repeat the course they have previously failed. Space is limited in summer school and is based on a first come, first served basis. There is a fee for summer school. Questions about summer school should be directed to the Guidance Office.

### **Courses offered for new credit:**

#### **CAMP COUGAR 9 (1 credit)**

**7302 Health & PE 9 Girls**

**7303 Health & PE 9 Boys**

Grade level: 9

Prerequisite: Must pass a swim test

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

#### **CAMP COUGAR 10 (1 credit)**

**7402 Health & PE 10 Girls**

**7403 Health & PE 10 Boys**

Grade level: 9 or 10

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

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

**REGISTRATION WORKSHEET**  
**2011-2012**  
**Course Selections**

| <u>Course Number</u> | <u>Course Name</u> | <u>Teacher Recommendation</u> |
|----------------------|--------------------|-------------------------------|
|----------------------|--------------------|-------------------------------|

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

**Alternate Course Selection – MANDATORY**  
**(3 Required)**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Please refer to the 2011-2012 Course Catalog for course numbers, credits, prerequisites, descriptions, graduation requirements, and additional registration information. Each student will be contacted on an individual basis to complete the registration process. If there are questions or concerns, please contact the grade level counselor (643-0747).

**REGISTRATION FORMS** must be (signed) by parent or guardian; (2) signed by Pulaski County High School counselor; (3) and course descriptions read carefully to understand what is expected of students in each class. Select alternatives carefully. Review credits earned and courses taken to be certain graduation requirements are met.