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# Registration and Curriculum Information

Pulaski County High School  
2007/2008

Main Office 643-0747

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# 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

### 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.

### 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.

### 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 can't meet every request made by students without unlimited resources. However, our block schedule usually allows the re-scheduling 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

## 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.

## 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.

## Rank and Average

Rank in class is based on all subjects including withdrawals (WF). A system of ranking establishes the class standing of all 12th grade students. A point value is assigned to final grade of all subjects that are not weighted as follows: A = 4, B = 3, C = 2, D =

# GENERAL INSTRUCTIONS

1, and F = 0. Weighted classes (AP, dual enrollment) have the following values: A = 5, B = 4, C = 3, D = 2, and F = 0. The final GPA will include both semesters of the senior year. The rank and average is recorded on the scholastic record and become a part of the student's personal file.

## 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.

## 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.

## WEIGHTED CLASSES

### Dual Enrollment Classes

- Applied Meteorology Dual Enrollment
- English 12 Dual Enrollment
- Introduction to Telecommunications Dual Enrollment
- Introduction to Network Concepts Dual Enrollment
- U.S. Government Dual Enrollment

### Advanced Placement Classes

- AP English Literature & Composition

- AP Studio Art
- AP Calculus
- AP Biology
- AP U.S. Government and Politics
- AP U.S. History
- AP Psychology

## 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): English, U.S. History, Government, Chemistry, Biology, Calculus, Psychology, and Art. 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.

Pulaski County Public Schools recommends all AP students take the national AP exam. While colleges and universities vary in the scores they require on national AP exams, most accept a score of at least 4 or 5 for college credit. Parents/students should contact the particular colleges they are considering prior to enrollment in AP.

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.



### 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.

# GENERAL INSTRUCTIONS

New River Community College and Pulaski County High School offer a dual enrollment program in English 111 and English 112, Introduction to Telecommunications, Introduction to Network Concepts, and U.S. Government (Political Science 135 and Political Science 136), 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 and six (6) semester hours of college credit will be awarded by New River Community College. Students are responsible for paying their own tuition and book fees. College dual enrollment fees must be paid within three school days or the student will be withdrawn from the class.

## 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. Please see the grade level counselor for further information or visit the SWVGS web site at [www.swvgs.k12.va.us](http://www.swvgs.k12.va.us).

## 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 disabili-

ties, 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.

## Career Pathways and 2+2+2 Entrepreneurship

Pulaski County School System is a participating member of the New River Valley Career Pathways consortium. Career Pathways is a program of study that:

1. Combines a minimum of two years of secondary education (as determined under state law) with a minimum of two years of post secondary education in a nonduplicative, sequential course of study;
2. Integrates academics, and vocational and technical instruction, and utilizes work-based and worksite learning where appropriate and available;
3. Provides technical preparation in a career field;
4. Builds student competence in mathematics, science, reading, writing, communications, economics, and workplace skills through applied contextual academics, and integrated instruction, in a coherent sequence of courses;
5. Leads to an associate or a baccalaureate degree or a post secondary certificate in a specific career field;

# GENERAL INSTRUCTIONS

6. Leads to placement in appropriate employment or to further education.

A Career Pathways student is identified by the following:

- Is enrolled in challenging academics and/or
- Is enrolled in a technical program;
- Has strong academic preparation and technical skills training;
- Has participated in, or is participating in, a course that will articulate to a program at the post secondary level; and/or
- Has participated in a dual enrollment course at the secondary level that will meet a requirement at the post secondary level (this includes English and math courses); and/or

- Plans to attend at least two years of post secondary education related to the current course of study at the secondary level.

### **Articulation Agreements Established between New River Community College and Pulaski County High School**

The articulation process is designed to provide transition for students from one educational level to another with transfer of credit upon enrollment at NRCC.

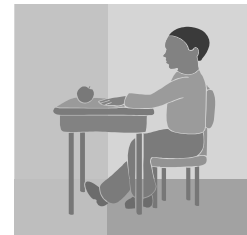
Courses listed in the Articulation Agreement with NRCC enable students to receive high school credit and college credit simultaneously that is used by the student only if they enroll at NRCC. **There is no tuition charged for the articulation agreement of credit.**

The articulated credit transferred into the community college from high school will be recorded on the student's college academic transcript.

The table shown below identifies New River Community College articulated courses and the matching Pulaski County High School courses.

### **Tuition**

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



## **DUAL ENROLLMENT COURSES**

(minimum numbers required by NRCC for enrollment)

### **New River Community College**

### **Pulaski County High School**

CHD 120, Introduction to Early Childhood	8286, Early Childhood Education II
ITN 100, Introduction to Telecommunications	6650, Computer Network Software Operations
ITN 101, Introduction to Network Concepts	6651, Advanced Computer Network Software Operations
ITN 107, P.C. Hardware and Troubleshooting	8624, Computer Repair Technology III
ITD 110, Web Page Design I	6632, Advanced Desktop Multimedia Presentation

## **ARTICULATED COURSES**

### **New River Community College**

### **Pulaski County High School**

AUTO 101, Introduction to Automotive Systems	8710, 8711, 8712, Automotive Service I, II, and III
DRF 114, Computer Aided Drafting and Design	8530, 8531, 8532, Computer Aided Design I, II, and III (CAD)
ETR 113, Direct Current Fundamentals	8533, 8534, 8535, Electricity I, II, and III

# GENERAL INSTRUCTIONS

## GRADUATION REQUIREMENTS BEGINNING WITH THE CLASS OF 2007

### Standard Diploma (6 verified credits)

Courses	Credits
English	4
Math* .....	4
Science** .....	3
Social Studies*** .....	4
Health & P.E.....	2
Fine Arts or Career and Technical Education ...	3
Electives**** .....	6
Total.....	26

\*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 vocational completer course may be substituted for the local requirement of a fourth math credit.

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

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

\*\*\*\*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.)

**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.**

Students who graduate with an average grade of 3.0 or better will receive a Board of Education Seal on the diploma.

### Advanced Studies Diploma (9 verified credits)

Courses	Credits
English	4
Math* .....	4
Science** .....	4
Social Studies*** .....	4
Health & P.E.....	2
Fine Arts or Career and Technical Education ...	2
Foreign Language .....	3
(3 years of one language or 2 years of 2 languages)	
Electives.....	5
Total.....	28

\*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.

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

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

**Required verified credits mean that the student must pass the class and must also pass the SOL test required for that class. They are as follows: 2 SOL tests in English, 2 SOL tests in Math, 2 SOL tests in Science, 2 SOL tests in History/Social Science, and 1**

### **SOL test selected by the student.**

Students who graduate with an average grade of 3.0 or better will receive a Board of Education Seal on the diploma.

Students who graduate with a grade point average of 3.0 or better and complete at least one AP or Dual Enrollment course will receive a Governor's Seal on the diploma.

### Credit for Summer Activities

Summer activities, such as band camp, cheerleading camp, football camp, 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 or administration prior to taking the course(s).

### 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

# GENERAL INSTRUCTIONS

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 as prescribed by the Board.
  - For students who entered the ninth grade in 2000-01 and beyond, the literacy and numeracy competency assessments will be 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)

Courses	Credits
English	4
Mathematics <sup>1</sup>	3
Science <sup>2</sup>	2
Social Studies <sup>3</sup>	2
Health & P.E.	2
Fine Arts or Career and Technical Education	1
Electives <sup>4</sup>	<u>6</u>
<b>Total</b>	<b>20</b>

<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.

<sup>2</sup>Courses completed shall include content from at least two of the following: applications of earth science, biology, chemis-

try, or physics in courses approved by the Board.

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

<sup>4</sup>Beginning with the graduating class of 2003, courses to satisfy this requirement shall include at least two sequential electives in the same manner required for the standard diploma.



### 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:

- Agriscience
- Business and Information Technology
- Family and Consumer Science
- Health & Medical Sciences
- Marketing Technology
- Trade and Industrial Occupations

### Fine Arts

The classes that fit into the category of FINE ARTS are those listed in this curriculum guide under the FINE ARTS heading.

### Math Completers

Career and technical education completer courses substitute for the fourth locally required math credit beginning with members of the class of

2002. 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.

### Courses

**Agriscience** –Three sequential courses either in Horticulture, Agriscience or Forestry/Wildlife

**Automotive Service I, II, & III**

**Building Trades I, II, & III**

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

**CAD I, II, III**

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

**CIS I & II** in addition to one other Business course (excluding Introduction to Business)

**Computer Network Software Operations, Advanced Computer Software Operations**, in addition to one other business course (excluding Introduction to Business)

**Computer Repair Technology I, II, & III**

**Construction Technology and Manufacturing Technology** or **Materials and Processing Technology**

**Cosmetology I, II & III**

**Culinary Arts I & II**

**Early Childhood Education I, II**

**Electricity Technology I, II, III**

**Fashion I & II**

**Health Assistant I & II**

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

**TV/Video Production I & II** (with one additional Technical Education course)

# GENERAL INSTRUCTIONS

## 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.

## How to Earn a Governor's Seal

- Complete the requirements for an Advanced Studies Diploma with an average grade of "B" or better, *and*
- Successfully complete college-level coursework that will earn the student at least 9 transferable college credits in Advanced Placement, Dual Enrollment, International Baccalaureate, and/or Cambridge examinations.

## How to Earn a Board of Education Seal

- Complete the requirements for a Standard Diploma with an average grade of "A."

## How to Earn a Career and Technical Education Seal

- Fulfill the requirements for either a standard or advanced studies 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.

## How to Earn an Advanced Mathematics and Technology Seal

- Fulfill the requirements for either a standard or advanced studies 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 recog-

nized industry, trade or professional association, *or*

- Pass a Board approved exam that confers college-level credit in a technology or computer science area.

## How to Earn an Excellence in Civics Education Seal

- Satisfy requirement to earn a standard or advanced studies diploma; *and*
- Complete Virginia and U.S. History and Virginia and U.S. Government courses with a grade of "B" or higher; *and*
- Complete 50 hours of voluntary participation in community service or extracurricular activities.

## 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
- Geometry
- Geometry B, Part 2

### Science:

- Earth Science
- Biology
- Chemistry

# GENERAL INSTRUCTIONS

## English:

- Writing Test for English 11
- Reading, Literature and Research Test for English 11

## 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 Studies 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.

Successful completion of these programs in the 2005/06 school year are eligible for Board approved industry certifications or state license:

- **Cosmetology**-Virginia Cosmetology State Board (Licensure)
- **Health Assistant**-Certified Nursing Assistant (CNA, Licensure)
- **Computer Repair**-A+ Certification
- **Automotive Body Technology**-Automotive Service Excellence (ASE) certification

- **Introduction to Telecommunications-Net+** Certification (CompTIA)
- **Advanced Computer Network Software Operations**-Network+ Certifications (CompTIA)
- **Computer Information Systems (CIS)-IC3** Certification/MOS Certification
- **Advanced Desktop/Multimedia**-Certified Internet Webmaster Associate (CIW) i-Net (CompTIA)
- **Horticulture Management III**-Greenhouse Operators Certification
- **Advanced Marketing**-Fundamental Concepts of Business and Marketing Certification (ASK Institute)
- **Culinary Arts II**-ProStart Certification

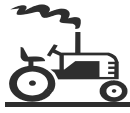
# COURSE DESCRIPTIONS

## AGRISCIENCE

### AGRISCIENCE I (1 credit)

**8006**

Grade level: 9, 10, 11 and 12  
(priority given to 9<sup>th</sup> grade)  
Prerequisite: None



Students in this course will participate in activities related to agriculture mechanics, farming, forestry and wildlife, horticulture and leadership. This class includes several field trips and hands-on instruction.

### AGRISCIENCE II (1 credit)

**8008**

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, conservation, leadership training, and agricultural mechanics, skills in welding, electricity, small gas engines, and power woodworking.

### AGRISCIENCE III (1 credit)

**8010**

Grade level: 11 and 12  
Prerequisite: Agriscience II

This course will emphasize student-designed projects related to farm management, crop production, and leadership competencies. Students also have opportunities to apply agriculture mechanics by maintaining, repairing, and updating agriculture equipment.

### AGRISCIENCE IV

(1 credit)

**8012**

Grade level: 12  
Prerequisite: Agriscience III

The focus of this course is on the study of animal science (dairy and livestock), farm management skills, and leadership development. There is continued application of agricultural mechanics skills previously learned, with special emphasis on the design and completion of projects involving the maintenance and repair of machinery.



### EQUINE MANAGEMENT PRODUCTION

(1 credit)

**8015**

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.

### FORESTRY AND WILDLIFE MANAGEMENT I

(1 credit)

**8040**

Grade level: 9 and 10  
Prerequisite: None

Forestry and Wildlife Management I is designed for students with an interest in forestry, wildlife, and outdoor recreation but who have had no previous agriculture courses. This course will explore careers and the importance of natural resources, provide hands-on work in mechanics and outdoor skills, and emphasize related leadership activities.

### FORESTRY & WILDLIFE MANAGEMENT II

(1 credit)

**8042**

Grade level: 10, 11 and 12  
Prerequisite: Agriscience II or Forestry and Wildlife Management I

Students in this class will participate in outdoor laboratory activities at Claytor Lake State Park and other sites, as well as receive shop and classroom instruction. Among the areas of study are tree identification and growth, forest and land management, forest and wildlife management, forest planting and harvesting techniques, related shop skills, and leadership activities.



### FORESTRY & WILDLIFE MANAGEMENT III

(1 credit)

**8044**

Grade level: 11 and 12  
Prerequisite: Forestry & Wildlife Management II

Activities in this course will include harvesting and processing of resources and the operation, repair and maintenance of equipment. Instruction also includes development and management of natural resources and outdoor recreation businesses as well as leadership development.

# COURSE DESCRIPTIONS

## **HORTICULTURE SCIENCES I (1 credit) 8034**

Grade level: 9 and 10  
Prerequisite: None

Horticulture Sciences I is an exciting hands-on course for students who are interested in a class that requires no previous Agriculture experience. This class includes training in the fields of floriculture, floral design, landscaping, and growing and marketing of different varieties of plants. Horticulture students participate in running a successful business. Horticulture is a career that makes the environment a better place.

## **HORTICULTURE OPERATIONS II (2 credits, 2 blocks) 8036**

Grade level: 10 and 11  
Prerequisite:

Agriscience Technology I & II or Horticulture I



Horticulture Operations II is open to students who have had either Horticulture I or two years of Agriscience. In this class, students will grow greenhouse crops such as poinsettias, chrysanthemums, bedding plants, and others. Students will also gain flower shop experience and create numerous floral designs.

## **HORTICULTURE MANAGEMENT III (2 credits, 2 blocks) 8038**

Grade level: 11 and 12  
Prerequisite: Horticulture Operations II

This class will provide the student with opportunities to apply advanced horticultural skills in landscape drawing, maintenance, and growing landscape crops.

## **LEADERSHIP DEVELOPMENT (1 credit) 9092**

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.

## **SMALL ENGINE REPAIR (1 credit) 8021**

Grade level: 9, 10, 11 and 12  
Prerequisite: None

This class will focus on the operation, maintenance, and repair of small gasoline engines. Small engines will be completely disassembled and overhauled. Much of the instruction will include hands-on shop experiences.

## **AGRISCIENCE POWER AND EQUIPMENT WELDING (1 credit) 8016**

Grade level: 10, 11 and 12  
Prerequisite: None



This course will involve the reconditioning and building of agricultural machinery. Skills learned will be arc and mig welding, gas cutting, plasma cutting, metal sawing and

drilling, and other skills necessary for metal fabrication. Students will work on projects such as horse and cattle trailers, tractors, hay equipment, and other farm implements.

## **BUSINESS AND INFORMATION TECHNOLOGY**

### **ACCOUNTING I (1 credit) 6320**

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 (1 credit) 6321**

Grade level: 11 and 12  
Prerequisite: Accounting I

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

### **BUSINESS LAW (1 credit) 6132**

Grade level: 11 and 12  
Prerequisite: None



This course will incorporate economic and social concepts as they relate to laws affecting businesses and individu-

# COURSE DESCRIPTIONS

als. 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**

**(1 credit)**

**6136**

Grade level: 11 and 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.

## **PROGRAMMING (VISUAL BASIC)**

**(1 credit)**

**6640**

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**

**(1 credit)**

**6614**

Grade level: 9, 10, 11 and 12

Prerequisite: Six weeks of Keyboarding at middle school is

recommended.

This course is designed to introduce students to microcomputer technology and business applications using word processing, spreadsheets, PowerPoint, and databases. These software packages are commonly used in most classes to complete projects during their high school career. This class is highly recommended for college bound students. It will give them a good foundation for the computer class that is a general requirement in college. Students will be using Microsoft Office. See information about Microsoft User Specialist certification in the description of Computer Information Systems II.



## **COMPUTER INFORMATION SYSTEMS II**

**(1 credit)**

**6615**

Grade level: 9, 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 have the opportunity to take the IC3 and/or MOS certification exams.



## **INTRODUCTION TO PRINCIPLES OF BUSINESS**

**(1 credit)**

**6116**

Grade level: 9 and 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. This class will articulate with NRCC. This enables students to receive high school credit and college credit simultaneously, but only if they enroll at NRCC.

## **INFORMATION TECHNOLOGY (IT) FUNDAMENTALS**

**(1 credit)**

**6670**

Grade level: 9 and 10

Prerequisite: None

In order to succeed in virtually any career, every student needs a solid foundation of **IT** skills. These competencies are essential for your individual success, as well as the prosperity of businesses and, ultimately, our economy.

Students will work individually and in teams in a modular format to learn the fundamentals of **IT** in the following areas:

# COURSE DESCRIPTIONS

- Information Support and Services: Computer Graphic Design, Computer Servicing and Repair, Fiber Optics, Lasers, and Digital Video Editing.
- Network Systems: Network Fundamentals, Exploratory Electronics.
- Programming and Software Development: Web Development, Desktop Publishing, Computer Software Applications, Animation.

As Information Technology (IT) continues to advance, it will offer more capabilities – from more efficient and productive database management to various security measures and other strategic tools necessary for companies to thrive. As a result, businesses in all industries will have a continually growing need for these technologies and for employees who are highly skilled in various areas of IT.

## **KEYBOARDING 6151**

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

This course is designed for students to develop and enhance touch skills for entering alphabetic, numeric and symbol information on a keyboard. Students compose and produce a variety of personal, educational, and professional documents.

## **NETWORKING ACADEMY**

The following two classes (Introduction to Telecommunications and Introduction to Network Concepts) are dual enrolled with NRCC under the Information Technology Net-

working (ITN) degree program. At the end of each class, students may take an Industry Certification exam that will show they are proficient in that area (i-Net+ and Network+). These industry certifications can be used for a student's verified unit of credit if student completes both classes plus one other Business class).

## **COMPUTER NETWORK SOFTWARE OPERATIONS CTE DUAL ENROLLMENT (1 credit)**

**6650 (NRCC class ITN 100-3 college credits)**  
Grade level: 11 and 12  
Prerequisite: None

Introduces data transmission systems, communication lines, data sets, network interfacing, protocols, and modes of transmission. Course content emphasizes network structure and operation. Maps to CompTIA i-Net + Certification. The CompTIA I-Net+ certification exam validates baseline technical knowledge of Internet, Intranet and e-commerce technologies, independent of specific Internet-related career roles. Those holding CompTIA i-Net+ certification can demonstrate knowledge and competency implementing and maintaining Internet, Intranet and Extranet infrastructures and services as well as the development of related applications.

## **ADVANCED COMPUTER NETWORK SOFTWARE OPERATIONS CTE DUAL ENROLLMENT (1 credit)**

**6651 (NRCC class ITN 101-4 college credits)**  
Grade level: 11 and 12  
Prerequisite: Computer Network Software Operations

Provides instruction in networking media, physical and logical topolo-

gies, common networking standards and popular networking protocols. Course content emphasizes the TCP/IP protocol suite and related IP addressing schemes, including CIDR. Course content also includes selected topics in network implementation, support and LAN/WAN connectivity. Maps to CompTIA Network+ certification. The CompTIA Network+ certification is an international industry credential that validates the knowledge of networking professionals. It is an accepted foundation-level, vendor-neutral certification for networking professionals.

## **OFFICE SPECIALIST I (1 credit)**

**6740**  
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) (1 credit)**

**6632**  
Grade level: 11 and 12  
Prerequisite: Information Technology

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). Students will also learn

# COURSE DESCRIPTIONS

the basics of Flash. 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.

## **ADVANCED DESKTOP/ MULTIMEDIA PRESENTATIONS (WEB DESIGN) CTE DUAL ENROLLMENT (1 credit) 6633**

Grade level: 11 and 12

Prerequisite: Desktop/Multimedia Presentations

Students develop advanced skill and apply journalistic principles in graphic design of written and electronic publications. Students work with sophisticated hardware and software to develop advanced-level websites and multimedia presentations. In addition, HTML, Java Scripting, or other industry-based Web development programming languages may be mastered for use in advanced website development. Upon successful completion, students have the opportunity to take the Certified Internet Webmaster Associate (CIW) or i-Net+ (CompTIA) national certifications.

## **ENGLISH**

### **ENGLISH 9 (1 credit) 1092**

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 (1 credit) 1094**

Grade level: 9

Prerequisite: Middle school teacher recommendation

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

### **ENGLISH 10 (1 credit) 1102**

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 (1 credit) 1104**

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

# COURSE DESCRIPTIONS

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 (1 credit)**

### **1112**

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 (1 credit)**

### **1114**

Grade level: 11

Prerequisite: English 10

Honors or teacher recommendation

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

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

## **ENGLISH 12 (1 credit)**

### **1122**

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, re-



search-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 (1 credit)**

### **1178**

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 in-

# COURSE DESCRIPTIONS

struction will be an integral part of the program, including word processing and Internet use.

## **ENGLISH 12 DUAL ENROLLMENT**

**(1 credit)**

**1120 (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. Students must pay for their own tuition and books. Those students who successfully complete the course will receive dual credit through Pulaski County High School and New River Community College.



## **ADVANCED PLACEMENT ENGLISH LITERATURE & COMPOSITION**

**(1 credit)**

**1127**

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 special information regarding advanced placement courses, see page 2 in this Tabloid.

## **ENGLISH ELECTIVES**

Will not count as English credit for graduation requirements

### **IMC SKILLS/LIBRARY RESEARCH**

**(1 credit)**

**1601**

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**

**(1 credit)**

**1200/1210/1220**

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**

**(1 credit)**

**1710**

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.

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.

# COURSE DESCRIPTIONS

## ENGLISH COURSE SEQUENCES

### Academic Sequence

English 9 → English 10 → English 11\* → English 12

### Honors Sequence

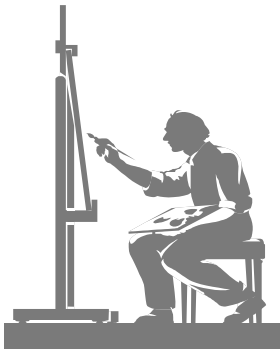
English 9 Honors → English 10 Honors → English 11 Honors\* → English 12 Honors  
 → English 12 Dual Enrollment  
 → Advanced Placement English and Composition

English electives, IMC Skills/Library Research, SAT Prep, and Journalism I, II, III, do not count as English credits but will count as general elective credits.

\*End-of-course test required.

## FINE ARTS

### ART



#### **ADVANCED ART I**

**(1 credit)**

**9140**

Grade level: 9, 10, 11 and 12

Prerequisite: Teacher recommendation from either middle school or high school art faculty required.

Advanced Art I is a comprehensive course of basic design concepts, techniques, and skills in a variety of media including printmaking, drawing, ceramics, weaving, calligraphy, watercolor, and sculpture. Students will complete weekly drawing assignments outside of class. Each student is required to maintain a notebook of classroom activities and art history lessons in addition to the

sketchbook. Students will also participate in local art competitions. There is a \$12 activity fee for this class.

#### **ADVANCED ART II**

**(1 credit)**

**9145**

Grade level: 10, 11 and 12

Prerequisite: Teacher recommendation required from high school art faculty

Advanced Art II is a comprehensive course building on the design, media, and history concepts of Advanced Art I. Students will create projects in the areas of drawing, calligraphy, painting, printmaking, ceramics, textiles and sculpture. Students maintain a sketchbook of weekly drawing assignments and a notebook of classroom activities. Students are required to maintain a portfolio and participate in local art competitions. There is a \$12 activity fee for this class.

#### **ADVANCED PLACEMENT STUDIO ART**

**(1 credit)**

**9149**

Grade level: 11 and 12

Prerequisite: Submission and approval of art portfolio (minimum 6 pieces

This course is designed for 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 classwork. Students are required to maintain a portfolio and develop an area of concentration in accordance to guidelines set forth by A.P. Central All students are encouraged to submit a portfolio for possible college credit. Students will participate in local and regional art competitions. There is a \$12 activity fee for this class. There will be no attendance-based exam exemption in AP courses. Students must take the teacher's final exam.

Students may take this class during their junior and senior years and may receive one credit for each year, but weighted credit only the first year.

# COURSE DESCRIPTIONS

## **FOUNDATIONS ART I**

**(1 credit)**

**9120**

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 printmaking, watercolor, weaving, ceramics, calligraphy, sculpture, and drawing. Throughout the year drawing is emphasized, and students complete sketchbook assignments in addition to work done in class. Each student maintains a notebook of classroom activities and art history lessons in addition to the sketchbook. There is a \$12 activity fee for this class.

## **FOUNDATIONS ART II**

**(1 credit)**

**9130**

Grade level: 10, 11 and 12

Prerequisite: Grade of C or above in Foundations Art I, Art teacher recommendation

Students will build on the fundamentals learned in Foundations Art I and create projects in drawing, printmaking, painting, ceramics, sculpture, textiles, and calligraphy. Students are required to keep a sketchbook of weekly drawing assignments. An overview of art history, appreciation, and technique is included with each media area. Student participation in school exhibits is required. Students are encouraged to build a portfolio. There is a \$12 activity fee for this class.

## **STUDIO ART**

**(1 credit)**

**9147**

Grade level: 11 and 12 (may be repeated for credit)

Prerequisite: Advanced Art II, Art teacher recommendation, submit art portfolio with minimum of six pieces for Art teacher review.

Students will create individual works of art in advanced painting, drawing, printmaking, fibers, ceramics, sculpture and other media. Studio time is structured so that students have the opportunity to explore problems and media techniques in depth. Students develop ideas and are expected to communicate them through their artworks. Students are taught art history in conjunction with the media areas. Students take periodic tests, maintain a sketchbook of weekly drawing assignments, create a portfolio, and participate in exhibitions. There is a \$12 activity fee for this class.

## **MUSIC**

### **ADVANCED CONCERT CHOIR**

**(1 credit)**

**9281**

Grade level: 10, 11 and 12

Prerequisite: Audition, previous choral experience

This class will study and perform music from all periods of choral history. 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**

**(1 credit)**

**9279**

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 classical literature and popular literature will be taught and performed. Performances will include school and community events and choral concerts. Out-of-class rehearsals and performances are required.

### **CONCERT CHOIR**

**(1 credit)**

**9280**

Grade level: 10, 11,

and 12 (Fall Semester),

9, 10, 11, and 12 (Spring Semester)

Prerequisite: Interest in choral music



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

### **JAZZ CHOIR**

**(1 credit)**

**9293**

Grade level: 10, 11, 12

Prerequisite: Audition and previous choral experience

This choral group will study and perform a combination of jazz, blues, classical and popular music 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.

# COURSE DESCRIPTIONS

Out-of-class rehearsals and performances are required.

## **ADVANCED PERFORMING/ SYMPHONIC BAND (1 credit) 9234**

Grade level: 9, 10, 11 and 12  
Prerequisite: Audition or previously enrolled

Entrance in the Advanced Performing Band is determined by audition. Students will demonstrate a high level of proficiency on their instrument, including technique and facility, and will demonstrate a thorough knowledge of playing fundamentals including scales and rhythms. The Advanced Performing Band will be the principal performing group. The scope of activities will include participation in local, district, and state events.

Students interested in Marching Band must be enrolled in a band first semester.



## **CONCERT BAND (1 credit) 9230**

Grade level: 9, 10, 11 and 12  
Prerequisite: 8th grade band

Intermediate Concert Band is open to those students who are not yet at the level of the advanced band but who have had prior instrumental experience. The course would primarily seek to expand playing skills already encouraged in band. Efforts will be made to give more atten-

tion to individual playing problems. A basic knowledge of theoretical aspects and stylistic differences in instrumental music will be emphasized. There will be some opportunities for participation in local, district and state events. Students interested in Marching Band must be enrolled in a band first semester.

Students interested in Marching Band must be enrolled in a band first semester.



## **GENERAL MUSIC WITH BEGINNING GUITAR (1 credit) 9250**

Grade level: 9, 10, 11, and 12  
Prerequisite: None

Students will perform in a variety of musical experiences including groups and individual guitar. The first nine weeks students will learn to read, notate, organize and understand music. The second nine weeks students will use their knowledge of general music to learn how to play and perform on guitar. Students will be responsible for purchasing guitar picks and their guitar book (\$14.00).

## **PERCUSSION ENSEMBLE (1 credit) 9240**

Grade level: 9, 10, 11 and 12  
Prerequisite: Successful completion of 8th grade band

Percussion Ensemble is for all percussionists that wish to be involved with Symphonic, Concert and Marching bands. The class will focus on scales, rudiments and on music from all three ensembles as well as music specifically written for percussion ensembles.

## **MARCHING BAND**

Marching Band will now be offered after school as an extracurricular activity. Students who want to participate in Marching Band must be enrolled in Concert Band, Percussion Ensemble, or Advanced Performing/Symphonic Band during the fall semester. Students should indicate on their registration forms that they want to participate in Marching Band.



## **THEATRE ARTS**

### **ADVANCED THEATRE ARTS I AND II (1 credit) 1440/1441**

Grade level: 10, 11 and 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.

# COURSE DESCRIPTIONS

## THEATRE ARTS EXPLORATION

(1 credit)

1410

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.

## STAGE CRAFT AND SET DESIGN I, II

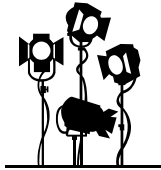
(1 credit)

1430/1431

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 mainstage productions. The student continues aspects of the beginning course with emphasis in advanced design work in the 11th and 12th grade.

## FOREIGN LANGUAGE

### FRENCH I

(1 credit)

5110

Grade level: 9, 10, 11 and 12

Recommended foundations: Enrollment in or successful completion of Algebra I

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

(1 credit)

5120

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

(1 credit)

5130

Grade level: 10, 11 and 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

# COURSE DESCRIPTIONS

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**

**(1 credit)**

**5140**

Grade level: 10, 11 and 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.



## **ADVANCED FRENCH**

**(1 credit)**

**5170**

Grade level: 10, 11 and 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.

# COURSE DESCRIPTIONS

## GERMAN I

(1 credit)

5210

Grade level: 9, 10, 11 and 12  
Recommended foundations:  
Enrollment in or successful  
completion of Algebra I

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

(1 credit)

5220

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 is continued. Proficiency with the language will be developed through classwork and independent practice.

## GERMAN III

(1 credit)

5230

Grade level: 10, 11 and 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

(1 credit)

5240

Grade level: 10, 11  
and 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

(1 credit)

5270

Grade level: 10, 11 and 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.

## SPANISH I

1 credit)

5510

Grade level: 9, 10, 11 and 12  
Recommended foundations: Enrollment in or successful completion of Algebra I

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

(1 credit)

5520

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 classwork and independent practice.

## SPANISH III

(1 credit)

5530

Grade level: 10, 11 and 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

1 credit)

5540

Grade level: 10, 11 and 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



# COURSE DESCRIPTIONS

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 (1 credit)**

**5570**

Grade level: 10, 11 and 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\***

**(1 credit)**

**5512**

Grade level: 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 good-byes, 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.

\*\*This course offering is pending funding allocation.

## **HEALTH & MEDICAL SCIENCES**

### **INTRODUCTION TO HEALTH & MEDICAL SCIENCES**

**(1 credit)**

**8302**

Grade level: 9, 10, 11 and 12

Prerequisite: None

This course will introduce basic health care skills common to health care careers. It prepares students for advanced health career skill training. Students study select health career clusters established by the National Health Care Skill Standards; therapeutic, diagnostic, information, and environmental. Instruction includes knowledge and skills that the vast majority of health care workers should have; discusses an academic foundation, communication skills, legal responsibilities, ethics, safety practices, teamwork, and knowledge about the systems in the health care environment. Guest speakers from selected health clusters and simulated laboratory practice sessions are included in the instruction. It is recommended as a prerequisite for Health Assistant I.

### **HEALTH ASSISTANT I**

**(1 credit)**

**8331**

Grade level: 10, 11 and 12

Prerequisite: Introduction to Health Occupations is highly recommended.

This is a one-period occupational preparation course. Students will develop and improve skills common to the health career clusters in medical, nursing, therapy, and dietary services. Instruction includes specific knowledge and skills required to focus on direct client care in both determination of disease or illness

and the treatment occupations. It includes health maintenance practices, client interaction, intrateam communication, implementing client care procedures, monitoring, evaluation, and reporting of client status.



### **HEALTH ASSISTANT II (2 credits, 2 blocks)**

**8332**

Grade level: 12

Prerequisite: Health Assistant I

This is a two-period occupational preparation course. Supervised clinical experience is included in a local nursing home. The classroom experience emphasizes medical terminology, growth and development, human anatomy and physiology, nutrition, and employability skills. This course is especially helpful to the student who will continue health career education by attending college to pursue a degree in health care. The student will also have the option to take the state board examination to become a state Certified Geriatric Nurse Aide (CNA).

## **HEALTH AND PHYSICAL EDUCATION**

### **ADAPTIVE HEALTH AND PHYSICAL EDUCATION**

**(1 credit)**

**7710**

Grade level: 9, 10

Prerequisite: Teacher recommendation

This course is designed for students who need limited or modified participation in the physical education program.

# COURSE DESCRIPTIONS



## HEALTH & PHYSICAL EDUCATION 9

(1 credit)

**7300, GIRLS**

**7301, BOYS**

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

(1 credit)

**7400, GIRLS; 7401, BOYS**

Grade level: 10

Prerequisite: Health & Physical Education 9

This course is required for graduation. The physical education program will be centered around 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 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.



## PHYSICAL CONDITIONING

(1 credit)

**7664/7667/7668/7669**

Grade level: 9, 10, 11 and 12

Prerequisite: None

Physical Conditioning is designed to improve the skill level of students through participation in running programs leading up to a 5K run, agility training, weight training, and circuit training. As a result of the course, the student will become stronger, more physically fit, and more flexible.

## MARKETING EDUCATION

### FUNDAMENTALS OF MARKETING

(1 credit, 1 block)

**8110**

Grade level: 9 and 10

Prerequisite: None

Fundamentals of Marketing is a career exploratory class. Although the major emphasis is on marketing careers, all types of careers will be examined for their entry requirements, education, and/or training, compensation, and employment outlook. Class time will also include interview skills, human relations, and survival skills for life in the real world.

## INTERNET MARKETING

(1 credit)

**8125**

Grade level: 10, 11 and 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

(2 credits, 1 block)

**8120**

Grade level: 11 and 12

Prerequisite: None

Marketing students will receive a combination of classroom instruction and a minimum of 540 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 work an average of 15 hours per week.

## ADVANCED MARKETING

CTE DUAL ENROLLMENT

(2 credits, 1 block)

**8130**

Grade level: 12

Prerequisite: Marketing

Advanced Marketing is a senior level course designed to provide

# COURSE DESCRIPTIONS

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 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 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**

**(1 credit)**

**8176**

Grade level: 10, 11 and 12

Prerequisite: None

Sports, Entertainment, and Rec-

reation Marketing (SE&R) explores this growing field from the economics and business side to the promotional and interpersonal aspects. As SE& 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.

## **MATHEMATICS**

### **INTRODUCTORY**

#### **ALGEBRA**

**(1 credit)**

**3111**

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**

**(1 credit)**

**3131**

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. (Algebra B, Part II is not necessary to earn a credit in Algebra B, Part I.) Graphing calculator instruction will be used to reinforce algebra concepts in this course.

### **ALGEBRA B, PART II**

**(1 credit)**

**3132**

Grade level: 9, 10 and 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 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**

**(1 credit)**

**3130**

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

# COURSE DESCRIPTIONS

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 II (1 credit)**

**3135**

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 (1 credit)**

**3137**

Grade level: 9 and 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.

## **ADVANCED ALGEBRA/ TRIGONOMETRY**

**(1 credit)**

**3163**

Grade level: 11 and 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**

**(1 credit)**

**3169**

Grade level: 11 and 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**

**(1 credit)**

**3171**

Grade level: 11 and 12

Prerequisite: A minimum of a 'C' average in Advanced Algebra/Trigonometry (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**

**(1 credit)**

**3177**

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.

# COURSE DESCRIPTIONS

## MATHEMATICS COURSE SEQUENCES

Introductory Algebra	→ Algebra B, Part I	→ Algebra B, Part II	→ Geometry B, Part I → Geometry B, Part II
Algebra B, Part I	→ Algebra B, Part II*	→ Geometry B, Part I	→ Geometry B, Part II
	→ 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 elective, SAT Prep, does not count as a math credit but will count as a general elective credit.

\*End-of-course test required.

For additional requirements, see the Advanced Placement program description under the “General Directions” section of this Tabloid.

### CONSUMER MATH (1 credit)

**3128**

Grade level: 11 and 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

**(1 credit)**

**3178**

Grade level: 11 and 12

Prerequisite: Geometry

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

**(1 credit)**

**3141**

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

**(1 credit)**

**3142**

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,

# COURSE DESCRIPTIONS

congruent and similar triangles, parallelograms, circles, and vectors.

## **GEOMETRY A**

**(1 credit)**

**3143**

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**

**(1 credit)**

**3145**

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 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.



## **PROBABILITY/ STATISTICS**

**(1 credit)**

**3190**

Grade Level: 11 and 12

Prerequisites: Geometry

Students will be collecting, representing, and processing data to enhance their social awareness and career opportunities. Sub-topics 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**

**(does not count as a required  
Math credit)**

**(1 credit)**

**1710**

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.

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.



**SCIENCE**

## **BIOLOGY**

**(1 credit)**

**4300**

Grade level: 10 or 11

Prerequisite: None

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

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**

**(1 credit)**

**4301**

Grade level: 10 or 11

Prerequisite: Students may enroll in honors classes with a minimum of a B average in Earth Science and teacher recommendation

# COURSE DESCRIPTIONS

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.

## **ADVANCED PLACEMENT BIOLOGY**

**(1 credit)**

**4340**

Grade level: 11 and 12

Prerequisite: Biology (B average), Chemistry (B average) with Chemistry teacher recommendation; grade of B or better in Algebra II

The Advanced Placement Biology course is designed for those students who have keen interests and abilities in the sciences. It is also intended for those students who will seek advanced placement during their freshman year of college. An in-depth study of basic biological principles will be presented. Emphasis will be placed on techniques of learning and research, application of knowledge, data analysis.

For additional requirements, see the Advanced Placement program description under the "General Instructions" section of this Tabloid.

## **BIOLOGY II/ECOLOGY**

**(1 credit)**

**4407**

Grade level: 11 and 12

Prerequisite: Biology

This course is designed for those students who do not meet the math requirement for Chemistry.

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.



## **CHEMISTRY**

**(1 credit)**

**4410**

Grade level: 10, 11 and 12

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

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

This course is an academic study of the chemical world, emphasizing experimentation to obtain verifiable data, stoichiometry and an understanding of conservation of energy and matter. Concentration is on problem-solving, understanding and recording data, comprehensive analysis of results, and observation of the chemical world.

Students will investigate many environmental, biological, and geologic phenomena as part of their study of chemistry. Laboratory experiences are an essen-

tial component of the course and shall occupy at least 50% of the instructional time.

## **EARTH SCIENCE**

**(1 credit)**

**4200**

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**

**(1 credit)**

**4201**

Grade level: 9

Prerequisite: Middle school teacher recommendation

EOC Test: Standards of Accreditation require an End of Course

# COURSE DESCRIPTIONS

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**

**(1 credit)**

**4271**

Grade level: 10, 11 and 12

Prerequisite: Earth Science and Biology

A field-based course will deal with the many environmental issues facing the world today, environmental science will include the collection of data in our own area as well as throughout the world via an Internet connection. The use of notebook computers, probes, and cameras will facilitate data assessments and assist in providing recommendations of possible solutions to environmental problems both locally

and 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.

## **METEOROLOGY**

**(1 credit)**

**4255**

Grade level: 11 and 12

Prerequisite: Earth Science, Biology, Algebra II; grade of B or better in 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.

## **APPLIED**

## **METEOROLOGY DUAL ENROLLMENT**

**(1 High School credit, 3 semester hours credit from Virginia Tech)**

**4257**

Grade level: 12

Prerequisite: Algebra II; B in Chemistry; on-line placement exam

Applied Meteorology is an Internet-based course designed for advanced students with a strong background in math and science. Students enrolled in this course during their senior year will have the opportunity to earn college credit that can be transferred to the school of their choice after high school.

Applied Meteorology is divided into two distinct sections with the first section covering basic knowledge of atmospheric processes and forecasting tools. The second section is devoted to the detailed study of storms, including winter storms, thunderstorms, tornadoes, and hurricane events.

### **SCIENCE COURSE SEQUENCES**

#### Academic Sequence

Earth Science\* → Biology\* → Environmental Science  
→ Biology II/Ecology

#### Honors Sequence

Earth Science Honors\* → Biology Honors\* → Chemistry\* → Environmental Science  
→ Physics  
→ Advanced Placement Biology  
→ Meteorology → Applied Meteorology  
Dual Enrollment

\*End-of-course test required.

# COURSE DESCRIPTIONS

The course will also consist of web-based labs on topics covered throughout the class. Students will also forecast and monitor winter storm and severe weather events as they unfold using real-time weather data.

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. Students must pay for their own tuition and books.

## PHYSICS

**(1 credit)**

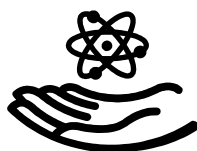
**4510**

Grade level: 11 and 12

Prerequisite: Trigonometry or Pre-Calculus

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

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



## SOCIAL STUDIES

### ECONOMICS

**(1 credit)**

**2810**

Grade level: 10, 11 and 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.

### INTRODUCTION TO PHILOSOPHY

**(1 credit)**

**2850**

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

**(1 credit)**

**2900**

Grade level: 11 and 12

Prerequisite: None

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

# COURSE DESCRIPTIONS

with an understanding of social and cultural determinants of behavior.

## **ADVANCED PLACEMENT PSYCHOLOGY (1 credit)**

**2902**

Grade level: 11 and 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.

## **SERVICE LEARNING (1 credit)**

**2500**

Grade level: 11 and 12

Prerequisite: None

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

The purpose of the course will be to provide students an opportunity to investigate ways in which people in a community help each other. For example, the bloodmobile, nursing homes and volunteer services provide essential community services. Students will define an area of interest and make a commitment to an agency serving the community. Developing a good match between a student and an agency will be part of the course. Students will develop skills necessary to fill commitments.

Volunteer service offers students an opportunity to use a variety of skills such as communication, recordkeeping, problem solving, planning, synthesis of data, and observation and reporting. It also offers an opportunity to assess personal career interests. Requirements include appropriate preparation prior to agency placement under the supervision of the program coordinator. Students must provide their own transportation.

## **U.S. GOVERNMENT ACADEMIC**

**(1 credit)**

**2440**

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.

## **ADVANCED PLACEMENT U.S. GOVERNMENT (1 credit)**

**2445**

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 Geog-

# COURSE DESCRIPTIONS

raphy Honors; U.S. History **OR** Advanced Placement U.S. History (\*Advanced Placement and Honors courses preferred)

\*For additional requirements, see the Advanced Placement program description under the "General Directions" sections of this tabloid.

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 re-

viewed, 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.

**U.S. GOVERNMENT  
DUAL ENROLLMENT  
(1 credit, NRCC class PLS  
135 and PLS 135, 6 semester  
hours college credit)  
2443**

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



**U.S. HISTORY  
(1 credit)**

**2360**

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

## SOCIAL STUDIES COURSE SEQUENCES

### Academic Sequence

World History to 1500/World Geography\* → World History from 1500 to the Present/World Geography  
→ U.S. History\* → U.S. Government

### Honors Sequence

World History to 1500/World Geog. Honors\* → World History from 1500 to the Present/World Geog. Honors\*  
→ Advanced Placement U.S. History\* → Advanced Placement U.S. Government\*  
→ 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.

# COURSE DESCRIPTIONS

\*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.

## **ADVANCED PLACEMENT U.S. HISTORY (1 credit) 2319**

Grade level: 11 and 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.

\*For additional requirements, see the Advanced Placement program description under the "General Directions" section of this tabloid.

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.

## **WORLD HISTORY TO 1500/WORLD GEOGRAPHY (1 credit) 2341**

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 combina-

tion 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 (1 credit) 2343**

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 do out-

# COURSE DESCRIPTIONS

side reading of books and essays and to write a term paper that will involve research on the Internet and at neighboring colleges. Tests will involve covering the SOLs as well as higher level thinking skills. Projects will require research using the Internet and library research, and papers using word processing skills will be required.

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

**(1 credit)**

**2342**

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**

**(1 credit)**

**2344**

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 do outside reading of books and essays and to write a term paper that will involve research on the Internet and at neighboring colleges. Tests will involve covering the SOLs as well as higher level thinking skills. Projects will require research using the Internet and library research, and papers using word processing skills will be required.

## **TECHNOLOGY EDUCATION**

### **COMMUNICATION TECHNOLOGY**

**(1 credit)**

**8418**

Grade level: 9, 10

Prerequisite: None

Communication Technology is a course designed for freshmen. It provides hands-on experiences in the field of communications. Project areas include desktop publishing, drafting, screenprinting, intaglio printing, and airbrush painting. A major emphasis is in the area of pinhole, 35 mm and digital photography. Students study in a well-equipped communications lab to produce group and individual projects.

### **CONSTRUCTION TECHNOLOGY**

**(1 credit)**

**8432**

Grade level: 9, 10, 11, and 12 (priority given to 9<sup>th</sup> and 10<sup>th</sup> grades)

Prerequisite: None

Construction Technology is a project-based course for all students interested in learning building and planning skills. Activities include projects in wood, site, and building layout, frame carpentry, electrical wiring, plumbing systems, structural engineering, residential planning, and community planning. Work is supported with a wide variety of hand and powered tools, survey equipment, and class software (including Model Smart 3D, Autodesk, and Sim City). Instructional units are primarily hands-on with activities accomplished in a well-equipped shop. Instruction is competency based



# COURSE DESCRIPTIONS

with emphasis placed on self-sufficiency, craftsmanship, and career awareness.

## MANUFACTURING TECHNOLOGY

(1 credit)

8426

Grade level: 9 and 10

Prerequisite: None

Manufacturing Technology is a project-based class in which students plan and produce products using various production techniques. Students plan and make "prototype" projects using wood, metals, plastics, and other materials. They will learn the proper operation of hand and powered tools while completing assigned activities. Production techniques include individual and team projects, computer numerical control, and line production. Instruction is primarily hands-on in a well-equipped shop. Craftsmanship and career opportunities are also emphasized. Students taking this class gain a better understanding of how products are made and learn to be more self-sufficient.



## MATERIALS AND PROCESSES TECHNOLOGY

(1 credit)

8478

Grade level: 10, 11, and 12

Prerequisite: None

Materials and Processes Technology is a project-based course designed for students interested in developing technical insights and skills. Students receive instruction in the process of

planning, cutting, joining, and finishing materials to produce individual and class projects in a well-equipped shop. Hand tools, powered tools, production software, computer numerical control, and a wide variety of materials (including woods and metals) are used in the completion of teacher and student planned activities. Craftsmanship, safety, and career awareness are emphasized.

## GRAPHIC IMAGING TECHNOLOGY (YEAR-BOOK) I, II, III

(1 credit)

8660/8661/8662

Grade level: 10, 11, and 12

Prerequisite: Application required

Graphic Imaging Technology prepares students for a career in what has traditionally been called the printing industry. Students learn to design and produce print media, which includes layout, electronic imaging, binding and finishing, and other graphic arts related to the printing industry. **(Students in this class will produce the school yearbook.)**

## TRADE AND INDUSTRIAL EDUCATION

### AUTOMOTIVE SERVICE I

(1 credit)

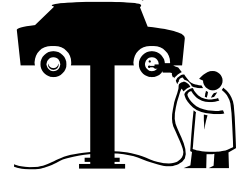
8710

Grade level: 10 and 11

Prerequisite: None (priority given to 10<sup>th</sup> grade)

Students will learn to make minor repairs, tune engines, and practice routine maintenance procedures. The study of elec-

trical systems and components of the cooling system is included. (Articulated with NRCC.)



### AUTOMOTIVE SERVICE II

(2 credits, 2 blocks)

8711

Grade level: 11 and 12

Prerequisite: Auto Service I

In Auto Mechanics 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. (Articulated with NRCC.)

### AUTOMOTIVE SERVICE III (2 credits, 2 blocks)

8712

Grade level: 12

Prerequisite: Auto Mechanics II

Students in Auto Mechanics III will be able to work on cars brought in to the auto mechanics shop for repairs such as rebuilding engines and front and rear end alignments. (Articulated with NRCC.)

### BUILDING TRADES I

(1 credit)

8515

Grade level: 9, 10, and 11

(priority given to 9<sup>th</sup> grade)

Prerequisite: None

This class will consist of the latest up-to-date instruction in masonry, carpentry, electricity and plumbing. It also includes basic computer operation, computer building skills, professional de-

# COURSE DESCRIPTIONS

velopment, and hands-on practice. This course uses time tested practices and new technological advances. This course is ABC (Associated Builders & Contractors) Certified, which also certifies the students when level three of the program is completed. This certification is recognized and accepted nationwide by contractors. This class focuses on giving a student a career, but it can also give a student good general knowledge about home repairs. The course has a heavy concentration in Skills USA-VICA. It gives students life long experiences they will never forget.



## **BUILDING TRADES II (2 credits, 2 blocks)**

**8516**

Grade level: 10, 11 and 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 building, and community and school awareness. This course is designed to ready students for the world of work and for life. This course is very involved in Skills-USA VICA. Students can become officers, participate in numerous contests, and attend leadership seminars and rallies. Students will be in their second year of ABC Certification and may also enroll in the Department of Labor Apprenticeship Program. While taking this course, stu-

dents will work with contractors during the school day, and upon completion of level three of this course, they earn one additional credit.

## **BUILDING TRADES III (2 credits)**

**8517**

Grade level: 11 and 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. As the other previous courses have stated, this course is very involved in Skills-USA VICA. This is the students' third and final year of ABC Certification that allows them proof of their training across the nation. Students that complete the apprenticeship program earn one additional credit and earn a salary while training with a contractor.



## **BUILDING TRADES IV (2 credits, 3 credits IF IN APPRENTICESHIP PROGRAM)**

**8520**

Grade Level: 12

Prerequisites: Building Trades III

Building Trades IV is the final course offered in masonry, carpentry, electricity and plumbing. The main focus of the program will be the house construction project and the apprenticeship program. This course is also heavily involved in Skills USA-VICA and professional development of students.

## **CARPENTRY CABINETMAKING I (1 credit)**

**8601**

Grade Level: 9, 10 and 11

Prerequisite: None

This class is designed to teach fundamental skills associated with layout, framing, and construction materials. Hands-on instruction will engage students in projects that practice cutting, shaping, assembling, and refinishing of wood pieces. Instruction will also include planning and wood drafting layouts. Upon satisfactory completion of the first program, the student will be eligible to enter the Carpentry Cabinetmaking II program.

## **CARPENTRY CABINETMAKING II (2 credits, 2 blocks)**

**8602**

Grade Level: 10, 11 and 12

Prerequisite: Carpentry Cabinetmaking I

Carpentry Cabinetmaking II is available to students, male and female, who have satisfactorily completed the Carpentry Cabinetmaking I program. Students enrolled in the Carpentry Cabinetmaking II program will have 2 blocks daily in carpentry and cabinetmaking. Upon satisfactory completion of this program, the student will be eligible to enter the Carpentry III program.

# COURSE DESCRIPTIONS

## **CARPENTRY CABINETMAKING III (2 credits, 2 blocks)**

**8603**

Grade Level: 11 and 12

Prerequisite: Carpentry Cabinetmaking II

Carpentry Cabinetmaking III is available to students, male and female, who have satisfactorily completed the Carpentry Cabinetmaking II program. This course will continue with advanced levels of performance in carpentry and cabinetmaking. Upon satisfactorily completing the Cabinetmaking program, the student will be able to use his/her skills in gainful employment and may have the opportunity to intern or apprentice in a local industry.

## **AUTOMOTIVE BODY TECHNOLOGY I**

**(1 credit)**

**ASE Nationally Certified**

**8676**

Grade level: 9, 10 and 11

Prerequisite: None (priority given to 10<sup>th</sup> grade)

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 (2 credits, 2 blocks)**

**ASE Nationally Certified**

**8677**

Grade level: 10, 11 and 12

Prerequisite: Automotive Body Technology I

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

## **AUTOMOTIVE BODY TECHNOLOGY III**

**(2 credits, 2 blocks)**

**ASE Nationally Certified**

**8678**

Grade level: 11 and 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.

## **COMPUTER AIDED DESIGN I (CAD)**

**(1 credit)**

**8530**

Grade level: 9, 10, and 11

Prerequisite: Algebra I (or be enrolled in Algebra I)

This class is recommended for students interested in Architectural Design Engineering, Industrial/Mechanical Design, 3D Modeling, or a career in Computer-Aided 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 CAD architects, engineers, and operators. Students will be instructed with the latest version of Auto-Cad, one 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 architectural drawings.

## **COMPUTER AIDED DESIGN II (CAD)**

**(1 credit)**

**8531**

Grade level: 10, 11, and 12

Prerequisite: CAD I

This class will offer students the opportunity to expand their knowledge of AutoCAD, the fundamentals of drawing, and introduction 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.

# COURSE DESCRIPTIONS

## **COMPUTER AIDED DESIGN III (CAD) CTE DUAL ENROLLMENT (1 credit)**

**8532**

Grade level: 11 and 12

Prerequisite: CAD II

This class is for advanced students who have completed levels I & II in CAD. 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 completion of this course, students can receive college credit at New River Community College through the articulation program. Students that complete the apprenticeship program earn one (1) additional credit and earn a salary while training with an employer (NRCC, DRF 114).

## **COMPUTER REPAIR TECHNOLOGY I (1 credit)**

**8622**

Grade level: 10 and 11

Prerequisite: Algebra I (Information Technology Fundamentals, beginning with school year 2004/05)

Students will learn to construct, trouble shoot, service, and repair computer systems and related components and software. They will learn safety and introduction to hand tools including Volt-Ohm Meters. This course includes an intensified study of MS-DOS and Windows 98.



## **COMPUTER REPAIR TECHNOLOGY II (1 credit)**

**8623**

Grade level: 10, 11 and 12

Prerequisite: Computer Repair Technology I

Students will learn to remove and configure all major components of a computer system, install and configure all types of memory including SIMMs, video, and cache. Students will learn the proper use of video and sound drivers, trouble shoot a malfunctioning multimedia system in a system, identify the source of the problem and correct it, whether that problem is hardware or software related. They will be taught Windows 2000 and Lynx commands and the proper way to install and remove Windows 2000 and Lynx.

## **COMPUTER REPAIR TECHNOLOGY III CTE DUAL ENROLLMENT (1 credit)**

**8624**

Grade level: 11 and 12

Prerequisite: Computer Repair Technology II

This computer course will teach various local area network topologies including the LAN connection options. It will emphasize the basics of data communications and network operation systems as well as the hardware repairs and testing of the networks. The network platforms that will be taught will be Windows XP and Unix.

Each student will learn how to properly troubleshoot and repair laser printers. At the end of this semester, a student will be eligible to take the A+ certification test sponsored by the Computing Technology Industry Association.

## **COSMETOLOGY I (1 credit)**

**8527**

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 (2 credits, 2 blocks)**

**8528**

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

# COURSE DESCRIPTIONS

make-up will be covered this year. A course fee is required. (Students may opt to intern in a salon.)

## **COSMETOLOGY III (2 credits, 2 blocks) 8529**

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 (2 credits, 2 blocks) (1 credit, 1 block) 9020**

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

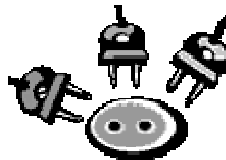
Grade level: 11 and 12  
Prerequisite: Education for Employment I and teacher recommendation

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

## **ELECTRICITY I (1 credit) 8533**

Grade level: 9 and 10  
Prerequisite: Algebra I (or be enrolled in 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. Workmanship and professionalism will be stressed throughout the course. Students will spend a significant amount of class time engaged in hands on learning.



## **ELECTRICITY II (1 credit) 8534**

Grade level: 10, 11 and 12  
Prerequisite: Electricity I



Students will be introduced and will practice commercial and industrial wiring methods. Electric motors and motor controls will be studied. Students will be expected to troubleshoot and repair a wide range of electrical devices and equipment and will be introduced to more complex electrical blueprints and schematics. Students will bend conduit, install electrical wire and cables, install electrical devices, and power up circuits.

The National Electrical Code will be heavily emphasized throughout the course.

## **ELECTRICITY III (1 credit) 8535**

Grade level: 11 and 12  
Prerequisite: Electricity II

Skills and knowledge in the field of electricity will be developed in this course. Industrial electrical systems will be covered 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 applying the National Electrical Code in preparation for certification-continued study and/or entry into the electrical trades field.

## **TV/VIDEO PRODUCTION I (1 credit) 8688**

Grade level: 9, 10, 11, and 12  
Prerequisite: None

This course will provide students the opportunity to express themselves through television, video, and computer technology. The television studio, camcorders,

# COURSE DESCRIPTIONS

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 (1 credit) 8689**

Grade level: 10, 11 and 12  
Prerequisite: Successful completion of 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 (1 credit) 8690**

Grade level: 11 and 12  
Prerequisite: Successful completion of 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. In this course, students will continue to produce school and community videos. A greater emphasis will

be placed on editing and computer editing.

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

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 will receive instruction on providing a safe, healthy learning environment, proper nutrition, positive reinforcement as to social, emotional, physical, and intellectual development of children.



## **EARLY CHILDHOOD EDUCATION II CTE DUAL ENROLLMENT (2 credits, 2 blocks) 8286**

Grade level: 10, 11, and 12  
Prerequisite: Successful completion of Childhood Education I and TB test verification

Students will research careers in childcare occupations and explore occupations related to the childcare industry. A career search of the occupation will include resume, interview, and follow-up activities.

## **EARLY CHILDHOOD EDUCATION INTERNSHIP (1 credit) 8209**

Grade level: 11 and 12  
Prerequisite: Successful completion of Early Childhood Education II

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

## **INTRODUCTION TO FASHION (1 credit) 8247**

Grade level: 9, 10, and 11  
(priority given to 9<sup>th</sup> grade)  
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 oper-

# COURSE DESCRIPTIONS

ates. Co-curricular activities are provided through participation in FCCLA (Family, Career, and Community Leaders of America).



## **FASHION I (1 credit)**

**8280**

Grade level: 10, 11, and 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 (1 credit)**

**8281**

Grade level: 10, 11, and 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 cus-

tomers relations in the retail business. Co-curricular activities are provided through participation in FCCLA (Family, Career, and Community Leaders of America).

## **INTRODUCTION TO CULINARY ARTS**

**(1 credit)**

**8249**

Grade level: 9, 10, and 11  
(priority given to 9<sup>th</sup> grade)

Prerequisite: None

This course will explore food service careers and investigate educational and training requirements for identified careers. The curriculum provides training in food preparation, use of commercial food equipment, and provides training for practicing food safety and sanitation. The Cougar Den Restaurant will provide students with on-site training. Students are encouraged to participate in the FCCLA (Family, Career, and Community Leaders of America).

## **CULINARY ARTS I (1 credit)**

**8275**

Grade level: 9, 10, and 11

Prerequisite: Successful completion of Introduction to Culinary Arts

Students prepare for managerial, production, and service skills used in commercial or independently owned food establishments and related food industry occupations. Their study includes planning, selecting, storing, preparing, and serving food products; basic nutrition, sanitation and safety; use and care of commercial equipment; serving techniques; and the operation of a food establishment, The Cougar Den. Students will have the opportunity to participate in

the FCCLA (Family, Career, and Community Leaders of America).

## **CULINARY ARTS II (2 credits, 2 blocks)**

**8276**

Grade level: 11 and 12

Prerequisite: Successful completion of Introduction to Culinary Arts I

Students extend and expand skills learned in Culinary Arts I, preparing for occupations such as chef/cook, baker/pastry helper, pastry decorator, hospitality worker, and entrepreneur. Students are encouraged to participate in the FCCLA (Family, Career, and Community Leaders of America).



## **CULINARY ARTS INTERNSHIP (ADVANCED)**

**(2 credits, 2 blocks)**

**8216**

Grade level: 12

Prerequisite: Successful completion of Introduction to Culinary Arts II

Students are prepared for job entry at the semi-skilled level for food service occupations. Under the supervision of the instructor, students will be provided training for management in a food service facility. This course targets those students who are considering a career in culinary arts.

# COURSE DESCRIPTIONS



## **FOODS, NUTRITION, AND WELLNESS (1 credit) 8228**

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.

## **SUMMER SCHOOL**

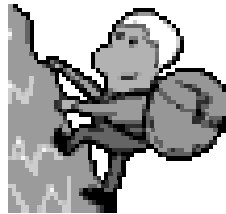
Pulaski County High School offers summer school to students who have previously failed a required course. Letters are sent out at the end of the school year informing students of their failures and the opportunity to retake the course in summer school. Summer school is currently a four-week program where students use NovaNet, 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.

## **SUMMER SCHOOL (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

## 2007-2008

### Course Selections

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

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

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

Please refer to the 2007-2008 tabloid 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.

**The entire master schedule, as well as hiring of teaching personnel, is based on registration. Therefore, you should not anticipate changes in individual schedules once the master schedule is finalized.**

